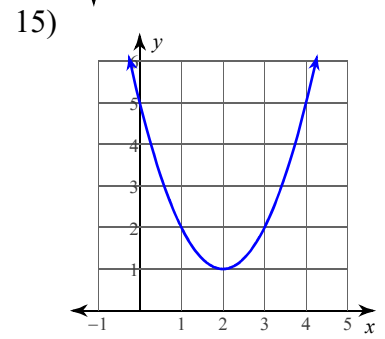
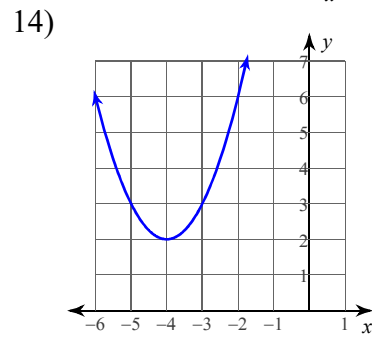
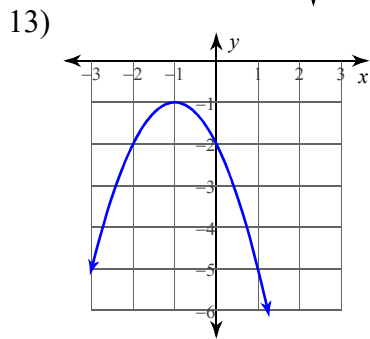
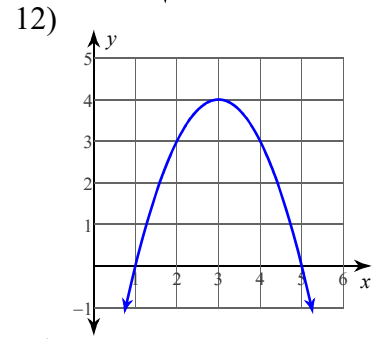
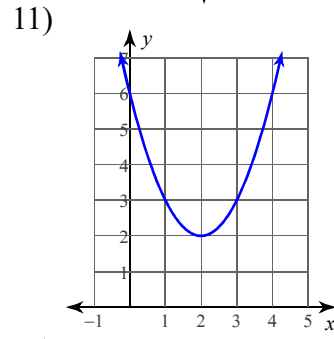
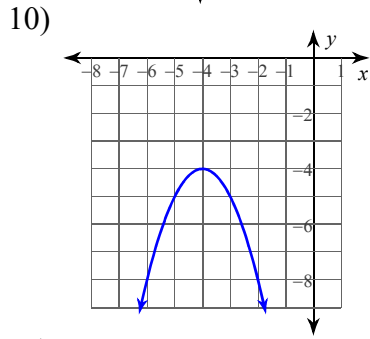
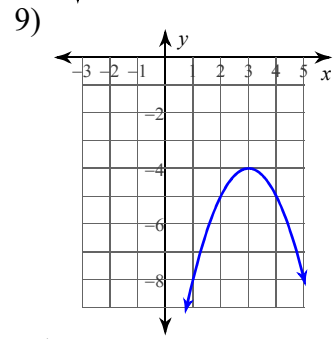
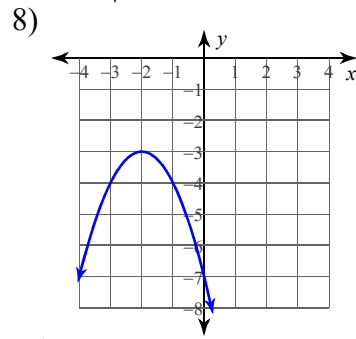
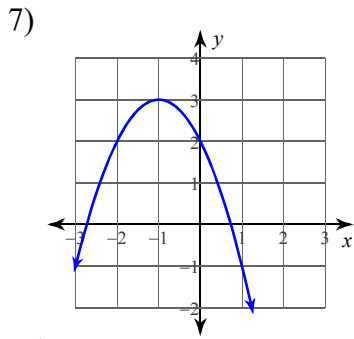
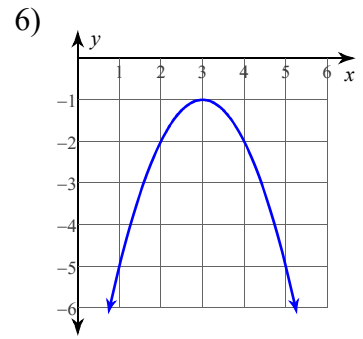
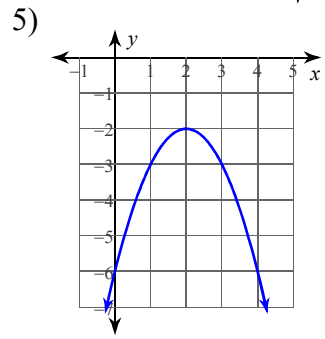
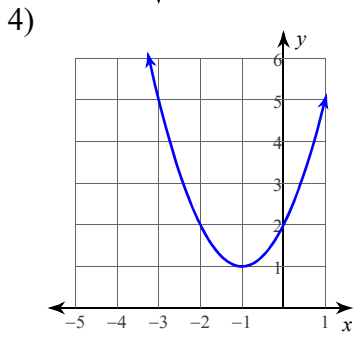
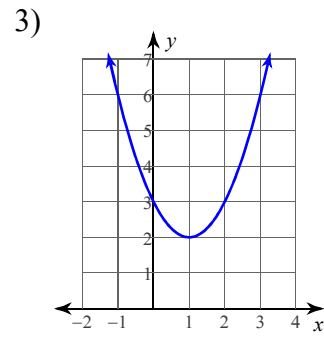
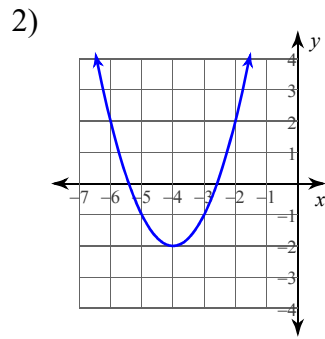
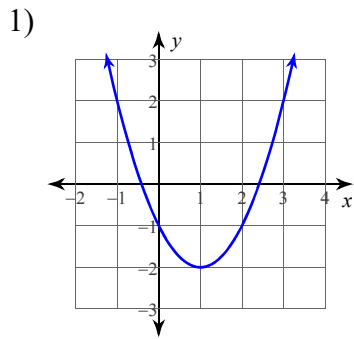
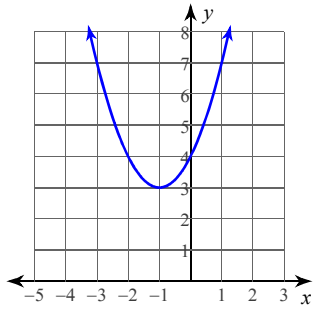


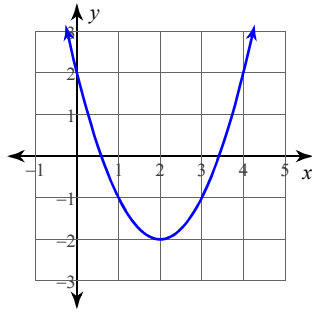
# Answers to



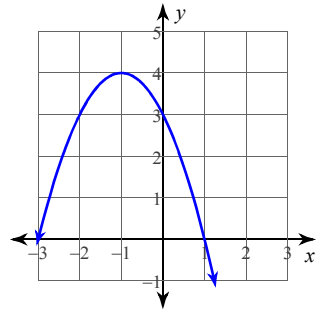
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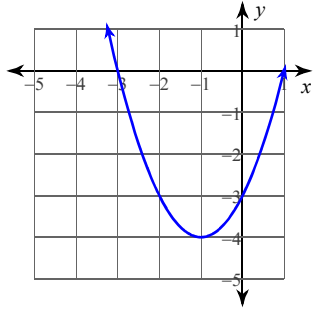
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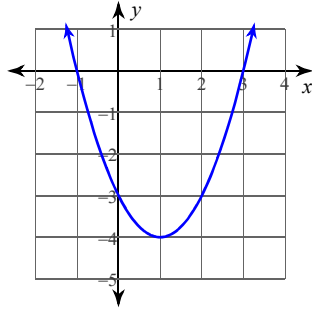
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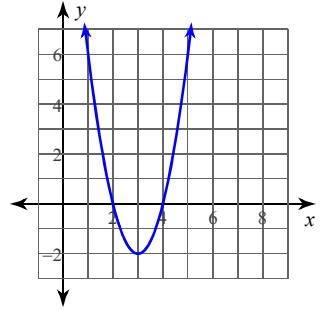
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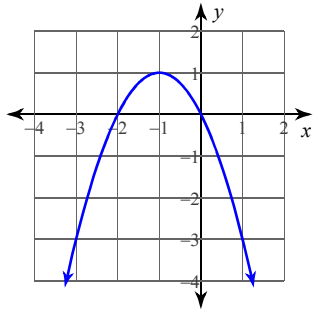
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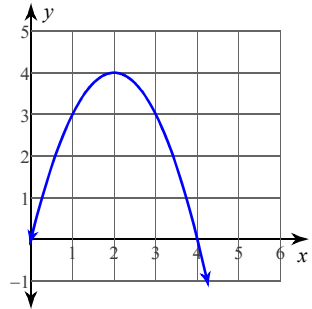
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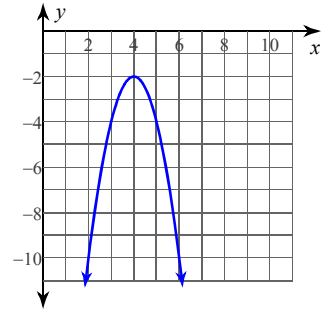
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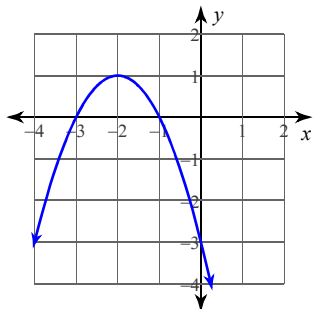
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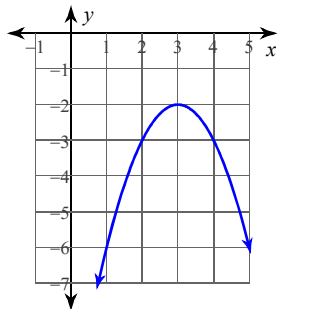
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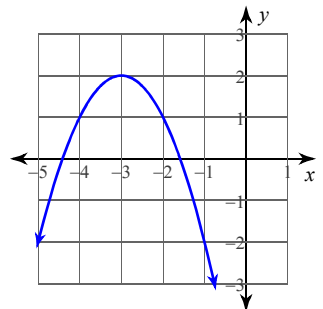
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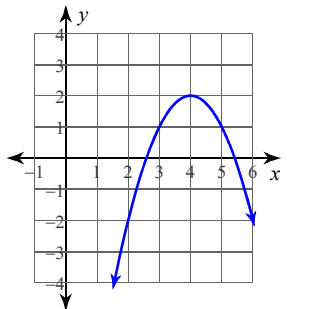
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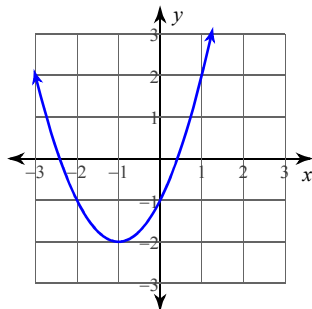
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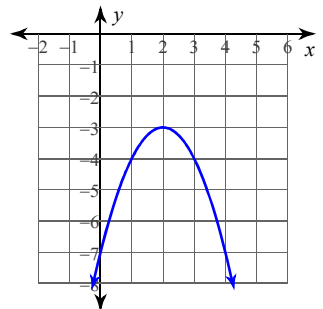
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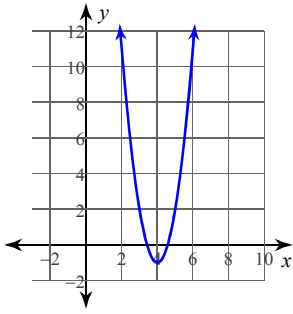
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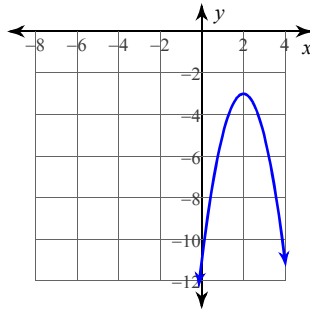
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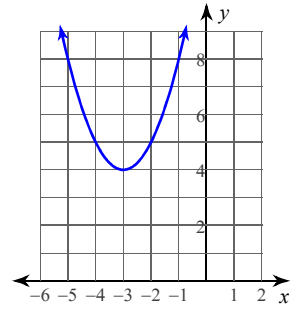
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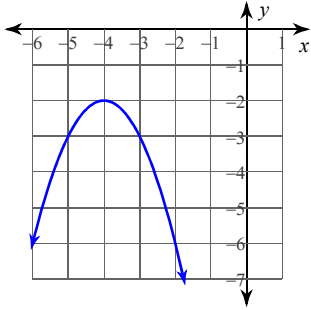
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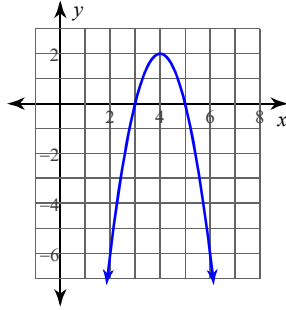
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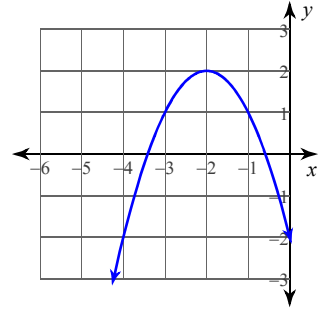
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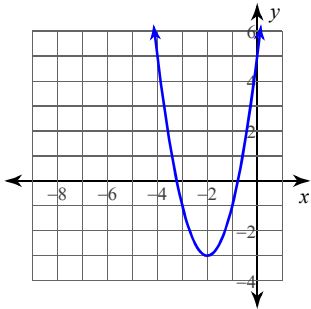
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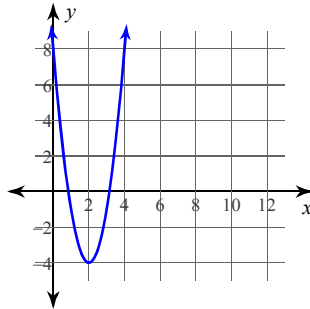
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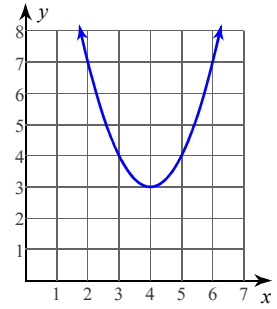
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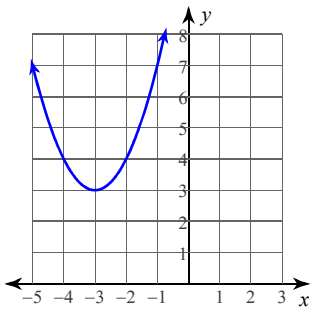
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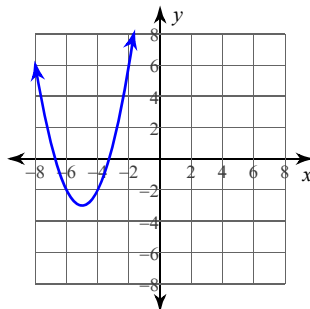
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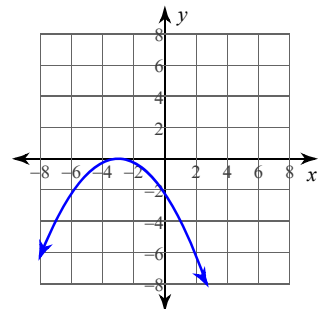
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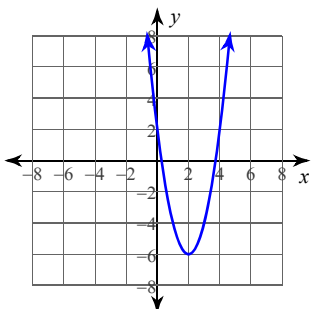
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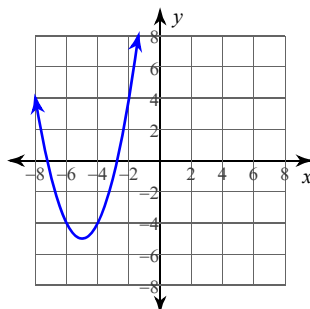
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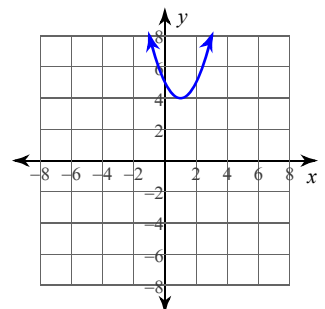
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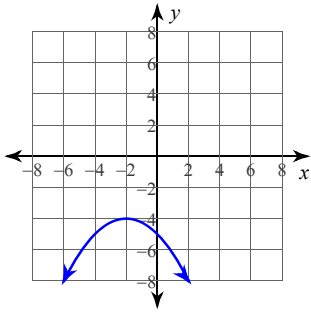
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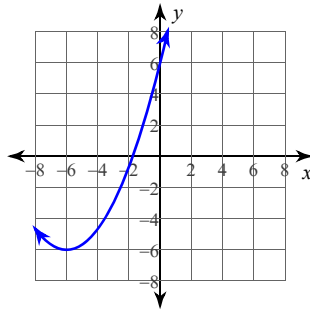
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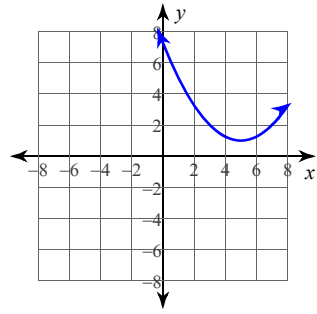
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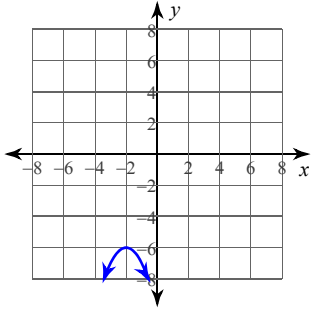
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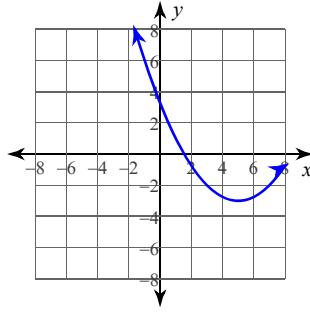
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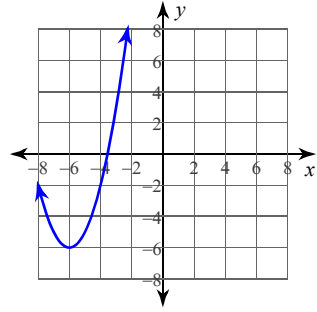
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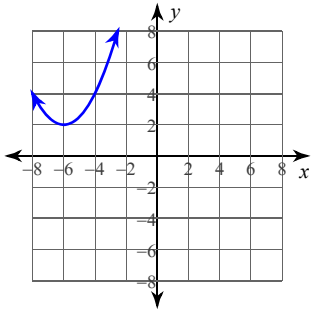
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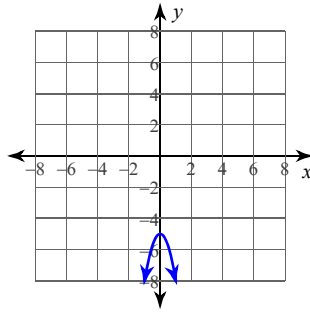
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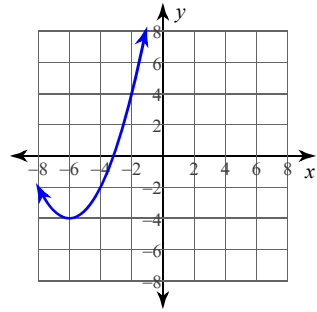
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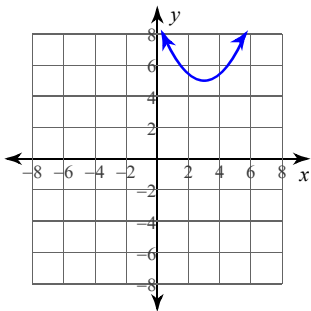
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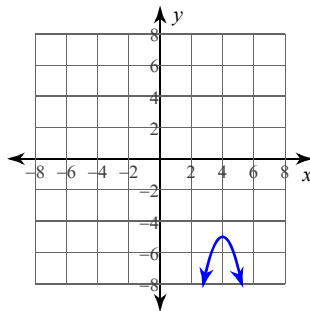
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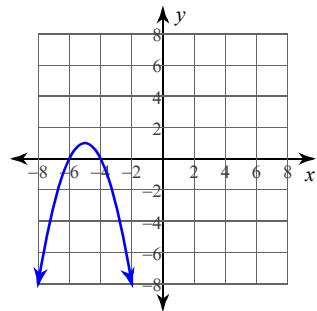
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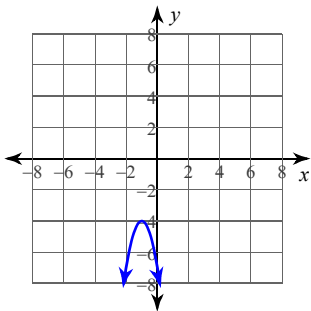
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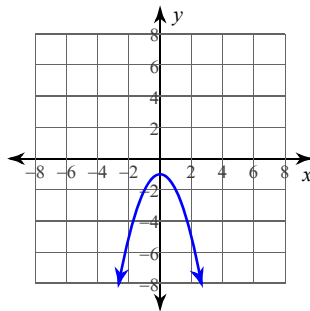
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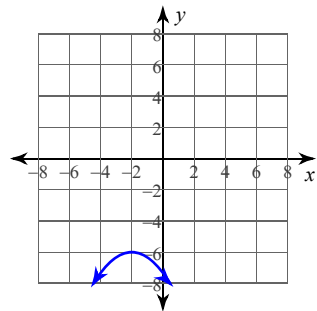
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59)

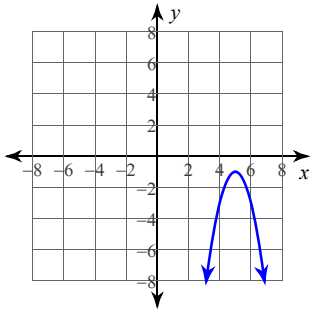


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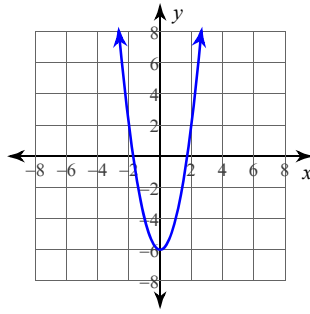




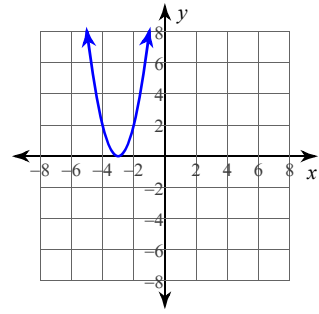
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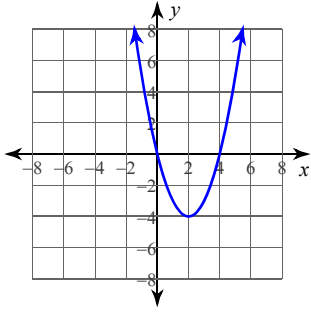
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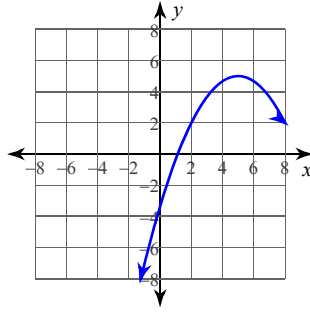
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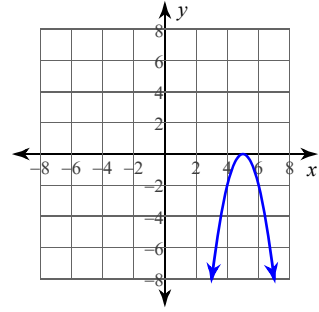
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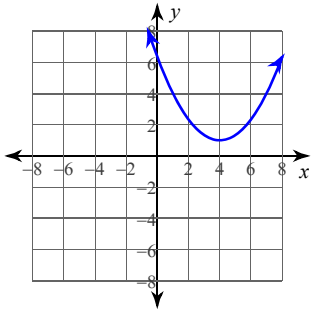
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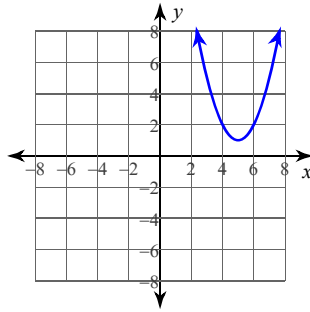
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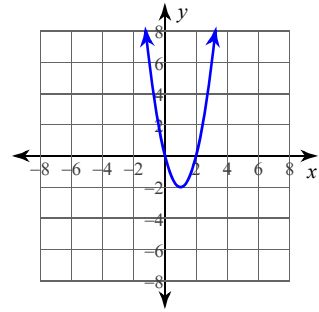
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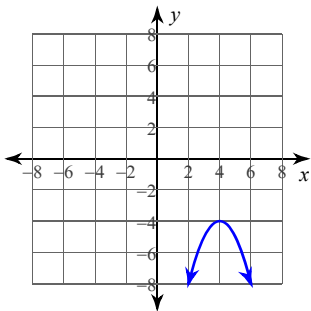
68)



69)



70)



71)  $y = (x - 2)^2 - 6$

72)  $y = \frac{1}{2}(x + 4)^2 + 6$

73)  $y = \frac{1}{3}x^2 - 4$

74)  $y = x^2 - 1$

75)  $y = 2(x + 1)^2 - 6$

76)  $y = \frac{1}{4}(x + 3)^2 + 1$

77)  $y = \frac{1}{3}(x - 2)^2 + 2$

78)  $y = (x + 5)^2 - 6$

79)  $y = (x - 6)^2 + 1$

80)  $y = x^2 - 6$

81)  $y = -2(x + 6)^2$

82)  $y = \frac{1}{2}(x + 6)^2 + 4$

83)  $y = -(x - 6)^2 - 1$

84)  $y = -(x + 6)^2 - 3$

85)  $y = -(x + 2)^2 - 2$

86)  $y = \frac{1}{3}(x - 4)^2 + 5$

87)  $y = -(x - 6)^2 - 4$

88)  $y = -3x^2 - 5$

89)  $y = -(x - 6)^2 - 5$

90)  $y = (x - 5)^2 + 3$

91)  $y = -2(x + 1)^2 - 3$

92)  $y = (x - 4)^2 - 4$

93)  $y = -(x - 4)^2$

94)  $y = 2(x - 4)^2 - 1$

95)  $y = (x + 3)^2 - 4$

96)  $y = (x - 1)^2 + 2$

97)  $y = 2(x - 5)^2 - 2$

98)  $y = (x - 5)^2 - 5$

99)  $y = \frac{1}{2}(x - 4)^2 - 5$

100)  $y = \frac{1}{4}(x - 2)^2$

101)  $y = -\frac{2}{3}(x - 1)^2 + 2$

102)  $y = -(x + 5)^2 - 5$

103)  $y = -(x + 8)^2 - 4$

$$104) y = -\frac{1}{2}(x+6)^2 - 9$$

$$105) y = (x-5)^2 - 1$$

$$106) y = -(x-4)^2 - 10$$

$$107) y = 4x^2 + 5$$

$$108) y = -4(x+9)^2 - 10$$

$$109) y = -(x-3)^2 + 5$$

$$110) y = 2(x+9)^2 - 7$$

$$111) y = 2(x+8)^2 - 8$$

$$112) y = 2(x-8)^2 - 4$$

$$113) y = 2(x-2)^2$$

$$114) y = -4(x+4)^2 - 1$$

$$115) y = -(x+3)^2 - 2$$

$$116) y = -4(x-3)^2 + 6$$

$$117) y = -(x+2)^2 + 1$$

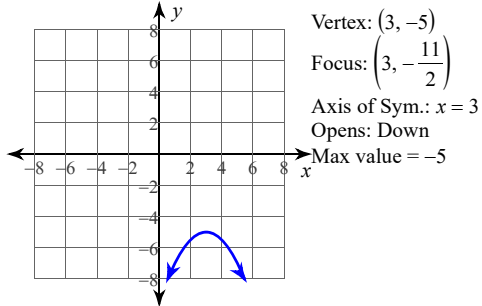
$$118) y = -2(x+5)^2 + 10$$

$$119) y = -(x-8)^2 - 5$$

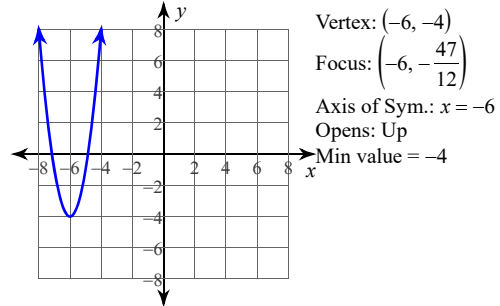
$$120) y = -3(x-9)^2 - 3$$

# Answers to

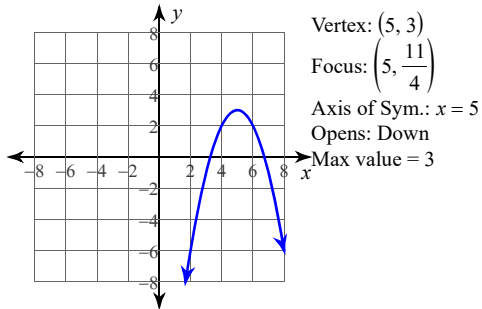
121)



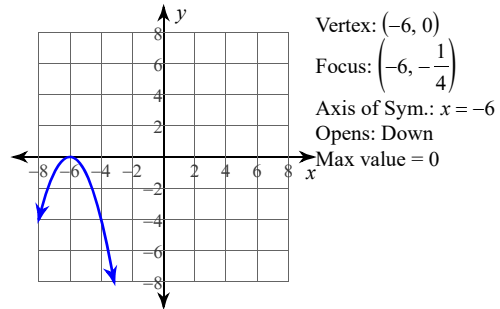
122)



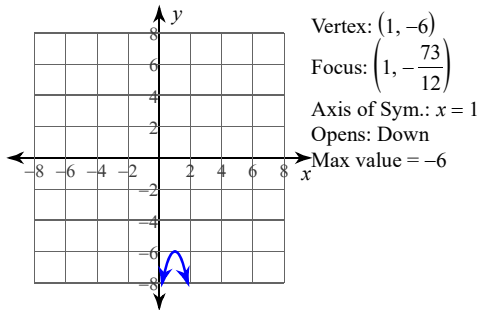
123)



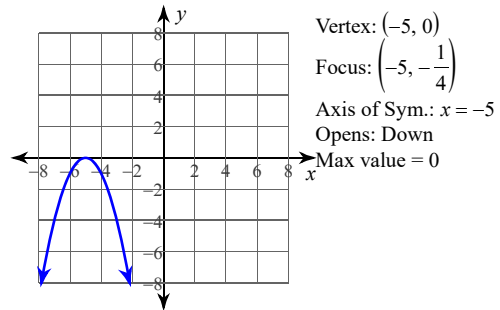
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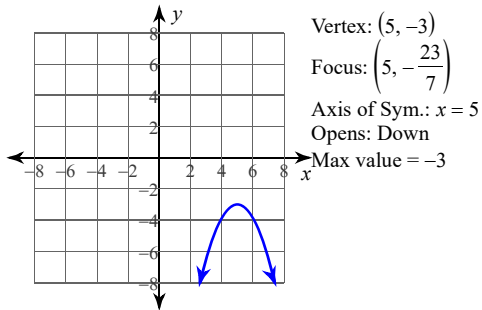
125)



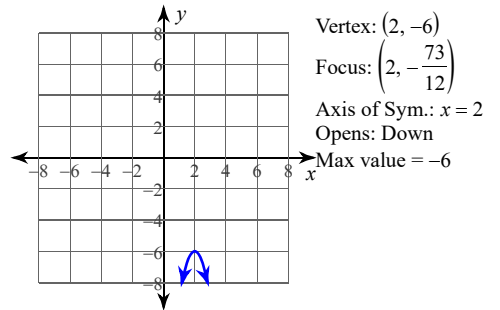
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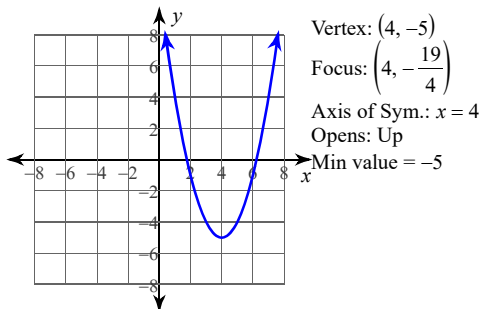
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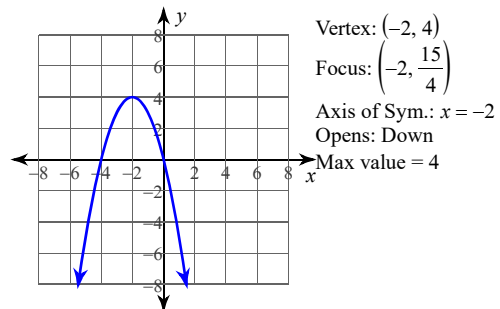
128)



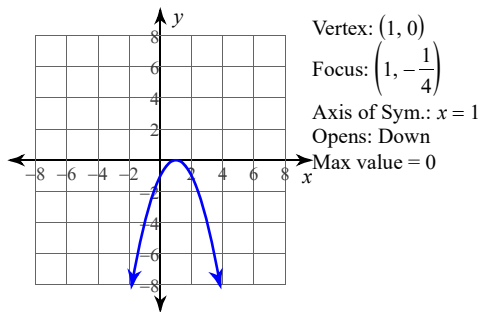
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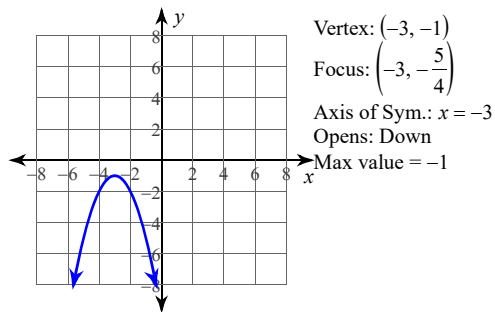
130)



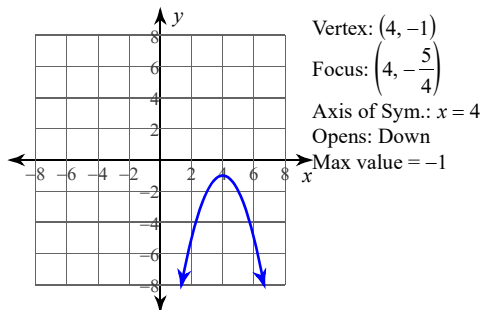
131)



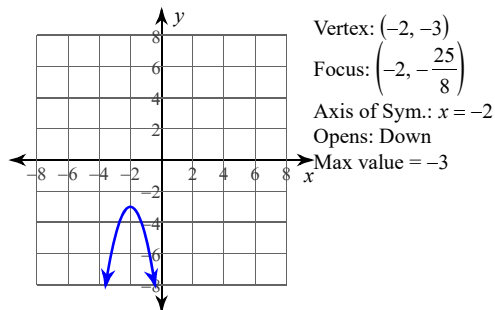
132)



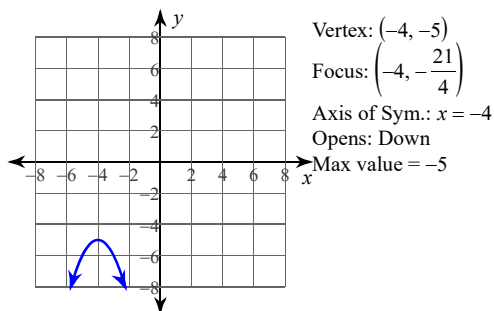
133)



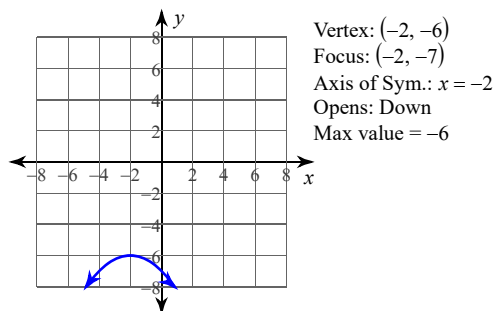
134)



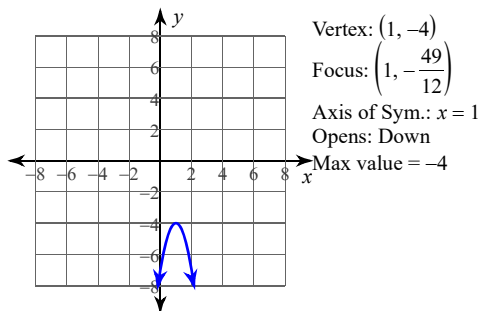
135)



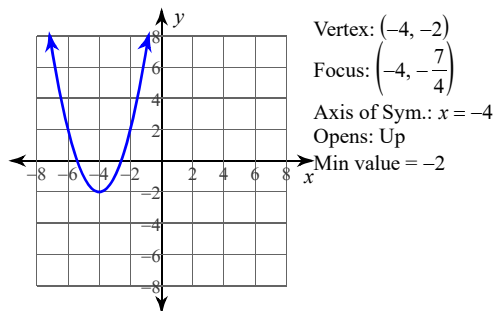
136)



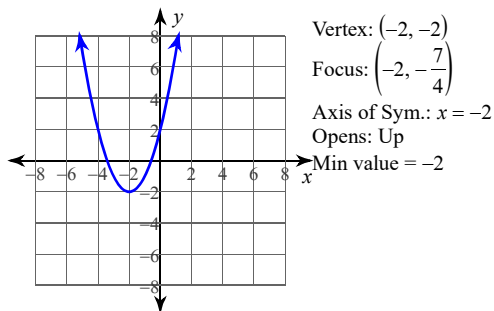
137)



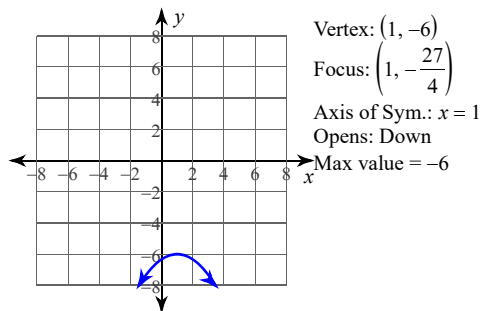
138)



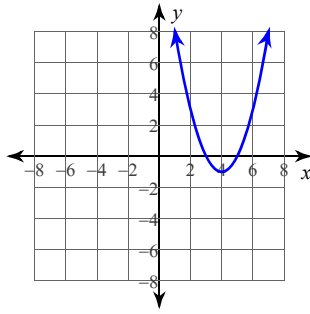
139)



140)

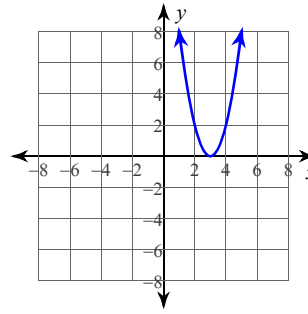


141)



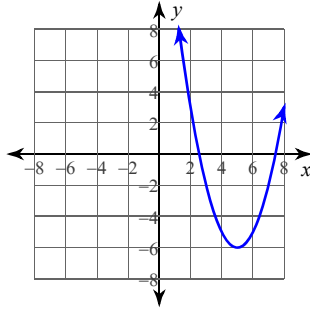
Vertex:  $(4, -1)$   
 Focus:  $(4, -\frac{3}{4})$   
 Axis of Sym.:  $x = 4$   
 Opens: Up  
 Min value =  $-1$

142)



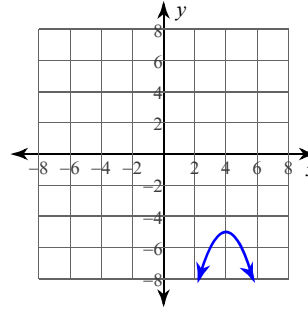
Vertex:  $(3, 0)$   
 Focus:  $(3, \frac{1}{8})$   
 Axis of Sym.:  $x = 3$   
 Opens: Up  
 Min value =  $0$

143)



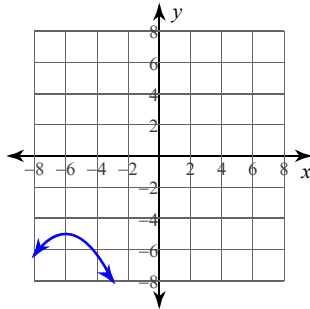
Vertex:  $(5, -6)$   
 Focus:  $(5, -\frac{23}{4})$   
 Axis of Sym.:  $x = 5$   
 Opens: Up  
 Min value =  $-6$

144)



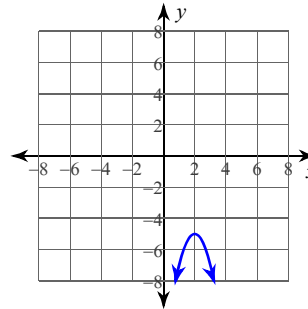
Vertex:  $(4, -5)$   
 Focus:  $(4, -\frac{21}{4})$   
 Axis of Sym.:  $x = 4$   
 Opens: Down  
 Max value =  $-5$

145)



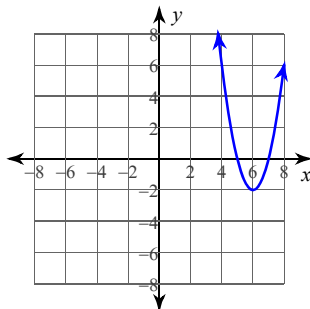
Vertex:  $(-6, -5)$   
 Focus:  $(-6, -\frac{23}{4})$   
 Axis of Sym.:  $x = -6$   
 Opens: Down  
 Max value =  $-5$

146)



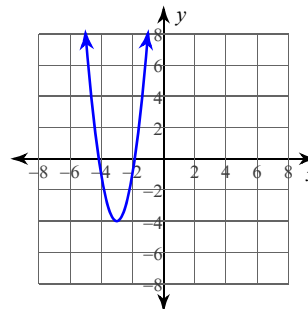
Vertex:  $(2, -5)$   
 Focus:  $(2, -\frac{41}{8})$   
 Axis of Sym.:  $x = 2$   
 Opens: Down  
 Max value =  $-5$

147)



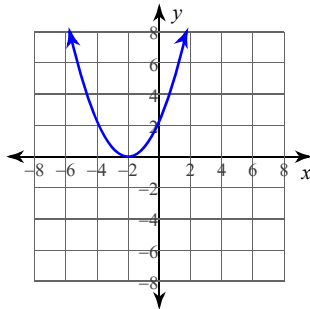
Vertex:  $(6, -2)$   
 Focus:  $(6, -\frac{15}{8})$   
 Axis of Sym.:  $x = 6$   
 Opens: Up  
 Min value =  $-2$

148)



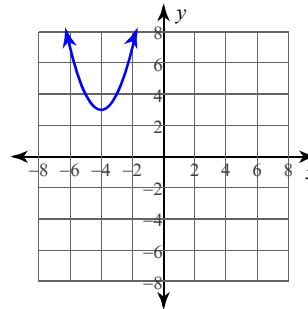
Vertex:  $(-3, -4)$   
 Focus:  $(-3, -\frac{47}{12})$   
 Axis of Sym.:  $x = -3$   
 Opens: Up  
 Min value =  $-4$

149)



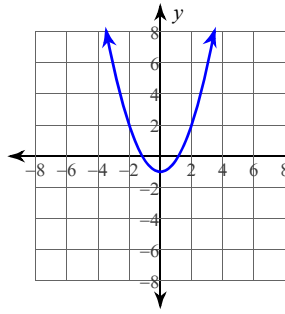
Vertex:  $(-2, 0)$   
 Focus:  $(-2, \frac{7}{16})$   
 Axis of Sym.:  $x = -2$   
 Opens: Up  
 Min value =  $0$

150)



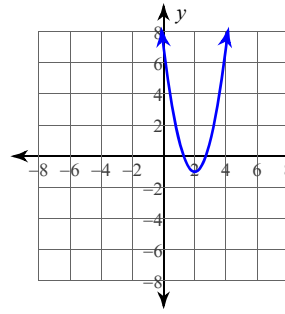
Vertex:  $(-4, 3)$   
 Focus:  $(-4, \frac{13}{4})$   
 Axis of Sym.:  $x = -4$   
 Opens: Up  
 Min value =  $3$

151)



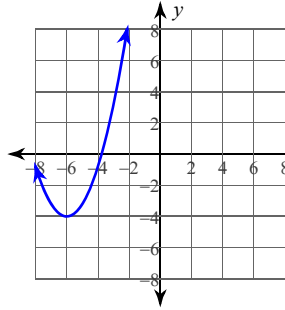
Vertex:  $(0, -1)$   
 Focus:  $(0, -\frac{2}{3})$   
 Axis of Sym.:  $x = 0$   
 Opens: Up  
 Min value =  $-1$

152)



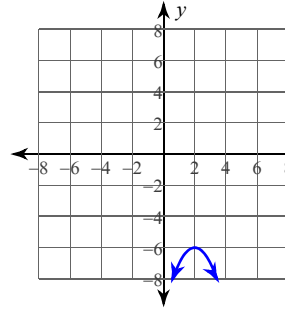
Vertex:  $(2, -1)$   
 Focus:  $(2, -\frac{7}{8})$   
 Axis of Sym.:  $x = 2$   
 Opens: Up  
 Min value =  $-1$

153)



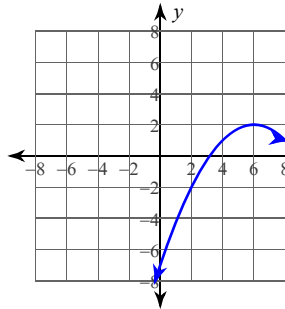
Vertex:  $(-6, -4)$   
 Focus:  $(-6, -\frac{59}{16})$   
 Axis of Sym.:  $x = -6$   
 Opens: Up  
 Min value =  $-4$

154)



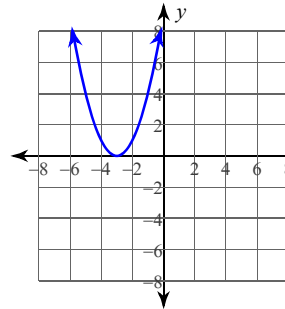
Vertex:  $(2, -6)$   
 Focus:  $(2, -\frac{25}{4})$   
 Axis of Sym.:  $x = 2$   
 Opens: Down  
 Max value =  $-6$

155)



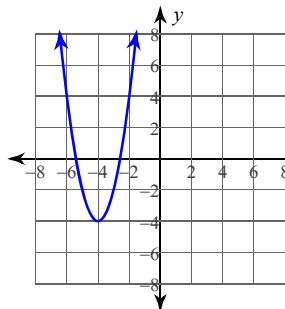
Vertex:  $(6, 2)$   
 Focus:  $(6, 1)$   
 Axis of Sym.:  $x = 6$   
 Opens: Down  
 Max value =  $2$

156)



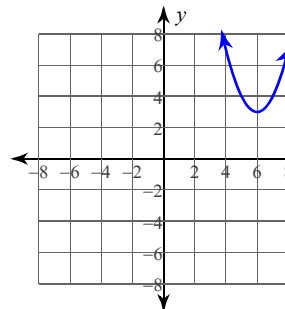
Vertex:  $(-3, 0)$   
 Focus:  $(-3, \frac{1}{4})$   
 Axis of Sym.:  $x = -3$   
 Opens: Up  
 Min value =  $0$

157)



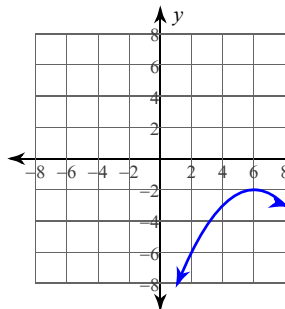
Vertex:  $(-4, -4)$   
 Focus:  $(-4, -\frac{31}{8})$   
 Axis of Sym.:  $x = -4$   
 Opens: Up  
 Min value =  $-4$

158)



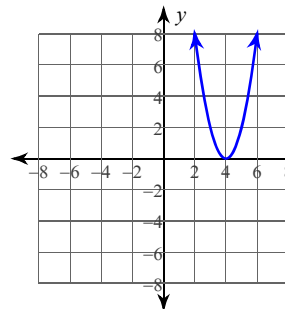
Vertex:  $(6, 3)$   
 Focus:  $(6, \frac{13}{4})$   
 Axis of Sym.:  $x = 6$   
 Opens: Up  
 Min value =  $3$

159)



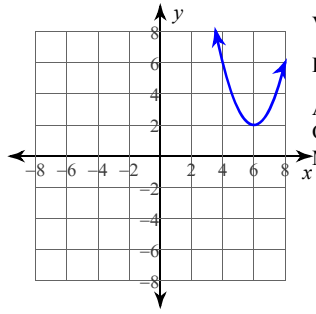
Vertex:  $(6, -2)$   
 Focus:  $(6, -3)$   
 Axis of Sym.:  $x = 6$   
 Opens: Down  
 Max value =  $-2$

160)



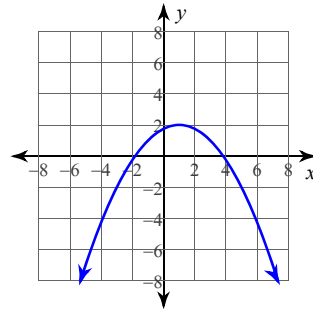
Vertex:  $(4, 0)$   
 Focus:  $(4, \frac{1}{8})$   
 Axis of Sym.:  $x = 4$   
 Opens: Up  
 Min value =  $0$

161)



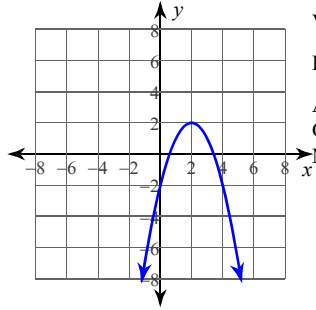
Vertex:  $(6, 2)$   
 Focus:  $(6, \frac{9}{4})$   
 Axis of Sym.:  $x = 6$   
 Opens: Up  
 Min value = 2

162)



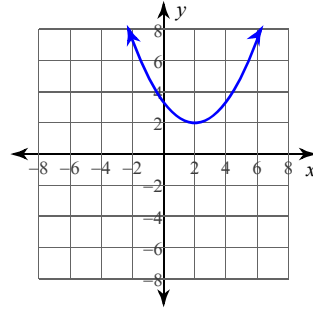
Vertex:  $(1, 2)$   
 Focus:  $(1, 1)$   
 Axis of Sym.:  $x = 1$   
 Opens: Down  
 Max value = 2

163)



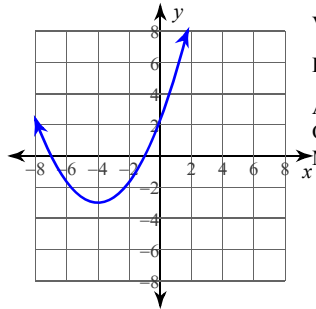
Vertex:  $(2, 2)$   
 Focus:  $(2, \frac{7}{4})$   
 Axis of Sym.:  $x = 2$   
 Opens: Down  
 Max value = 2

164)



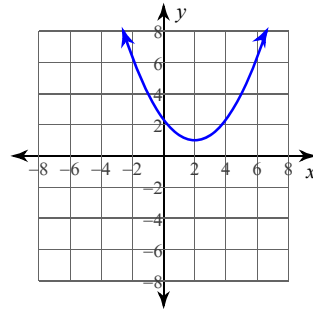
Vertex:  $(2, 2)$   
 Focus:  $(2, \frac{11}{4})$   
 Axis of Sym.:  $x = 2$   
 Opens: Up  
 Min value = 2

165)



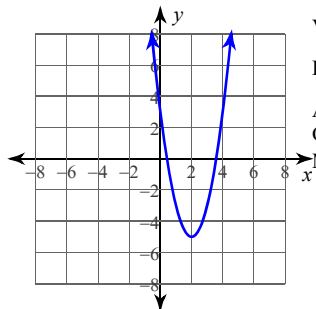
Vertex:  $(-4, -3)$   
 Focus:  $(-4, -\frac{9}{4})$   
 Axis of Sym.:  $x = -4$   
 Opens: Up  
 Min value = -3

166)



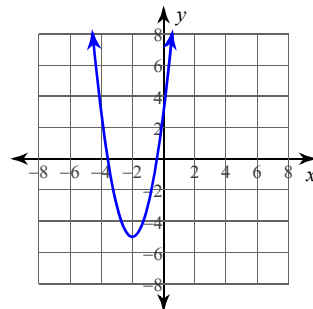
Vertex:  $(2, 1)$   
 Focus:  $(2, \frac{7}{4})$   
 Axis of Sym.:  $x = 2$   
 Opens: Up  
 Min value = 1

167)



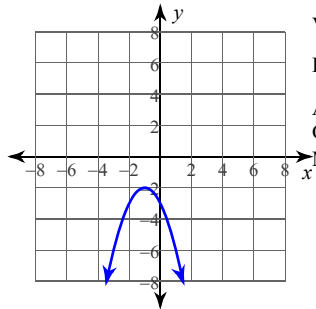
Vertex:  $(2, -5)$   
 Focus:  $(2, -\frac{39}{8})$   
 Axis of Sym.:  $x = 2$   
 Opens: Up  
 Min value = -5

168)



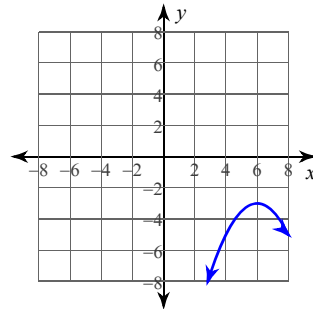
Vertex:  $(-2, -5)$   
 Focus:  $(-2, -\frac{39}{8})$   
 Axis of Sym.:  $x = -2$   
 Opens: Up  
 Min value = -5

169)



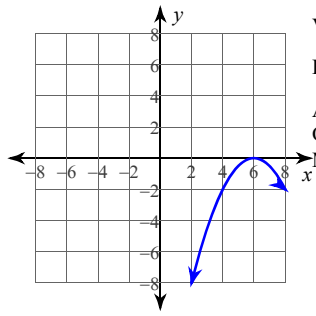
Vertex:  $(-1, -2)$   
 Focus:  $(-1, -\frac{9}{4})$   
 Axis of Sym.:  $x = -1$   
 Opens: Down  
 Max value = -2

170)



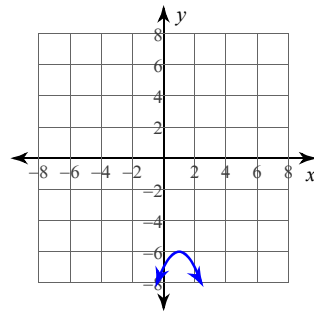
Vertex:  $(6, -3)$   
 Focus:  $(6, -\frac{7}{2})$   
 Axis of Sym.:  $x = 6$   
 Opens: Down  
 Max value = -3

171)



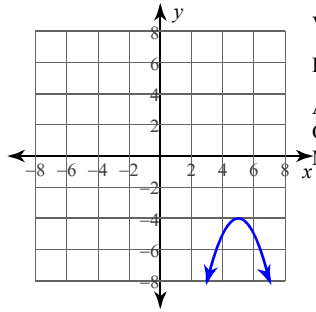
Vertex:  $(6, 0)$   
 Focus:  $(6, -\frac{1}{2})$   
 Axis of Sym.:  $x = 6$   
 Opens: Down  
 Max value = 0

172)



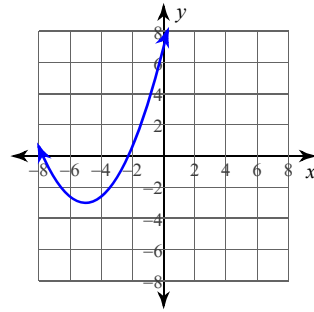
Vertex:  $(1, -6)$   
 Focus:  $(1, -\frac{25}{4})$   
 Axis of Sym.:  $x = 1$   
 Opens: Down  
 Max value = -6

173)



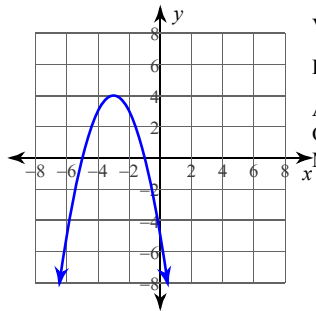
Vertex:  $(5, -4)$   
 Focus:  $(5, -\frac{17}{4})$   
 Axis of Sym.:  $x = 5$   
 Opens: Down  
 Max value = -4

174)



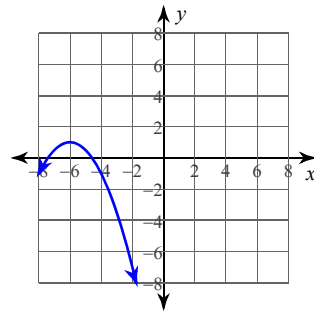
Vertex:  $(-5, -3)$   
 Focus:  $(-5, -\frac{19}{8})$   
 Axis of Sym.:  $x = -5$   
 Opens: Up  
 Min value = -3

175)



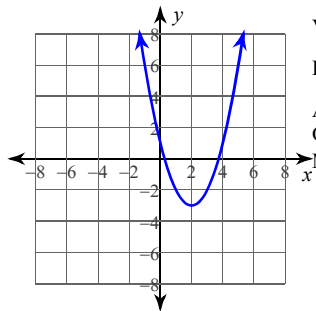
Vertex:  $(-3, 4)$   
 Focus:  $(-3, \frac{15}{4})$   
 Axis of Sym.:  $x = -3$   
 Opens: Down  
 Max value = 4

176)



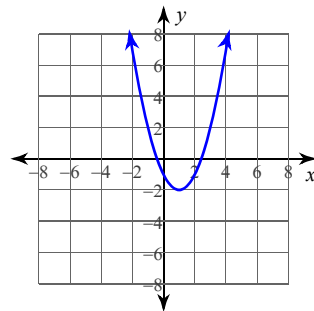
Vertex:  $(-6, 1)$   
 Focus:  $(-6, \frac{1}{2})$   
 Axis of Sym.:  $x = -6$   
 Opens: Down  
 Max value = 1

177)



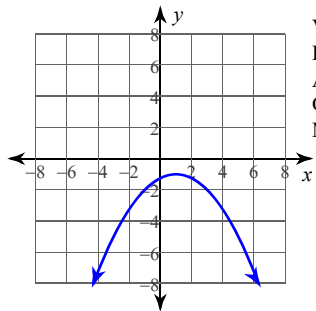
Vertex:  $(2, -3)$   
 Focus:  $(2, -\frac{11}{4})$   
 Axis of Sym.:  $x = 2$   
 Opens: Up  
 Min value = -3

178)



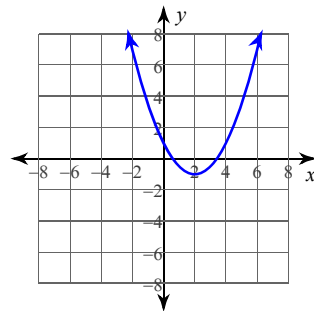
Vertex:  $(1, -2)$   
 Focus:  $(1, -\frac{7}{4})$   
 Axis of Sym.:  $x = 1$   
 Opens: Up  
 Min value = -2

179)



Vertex:  $(1, -1)$   
 Focus:  $(1, -2)$   
 Axis of Sym.:  $x = 1$   
 Opens: Down  
 Max value = -1

180)



Vertex:  $(2, -1)$   
 Focus:  $(2, -\frac{1}{2})$   
 Axis of Sym.:  $x = 2$   
 Opens: Up  
 Min value = -1

181) Axis of Sym.:  $x = \frac{3}{2}$ 

y-int: -12  
 x-int: 4 and -1

182) Axis of Sym.:  $x = -\frac{11}{2}$ 

y-int: 24  
 x-int: -8 and -3

183) Axis of Sym.:  $x = \frac{3}{2}$ 

y-int: 0  
 x-int: 0 and 3



184) Axis of Sym.:  $x = \frac{7}{2}$

y-int: -120  
x-int: 10 and -3

187) Axis of Sym.:  $x = 7$

y-int: -295  
x-int: None

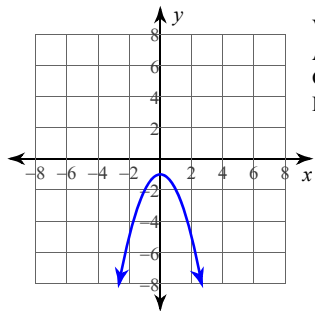
190) Axis of Sym.:  $x = \frac{5}{2}$

y-int: -24  
x-int: 8 and -3

193) Axis of Sym.:  $x = -4$

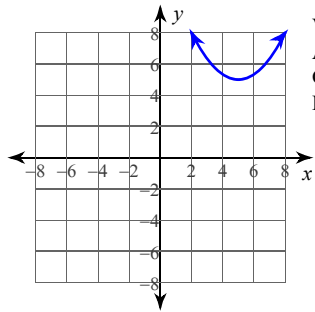
y-int: -60  
x-int: -5 and -3

196)



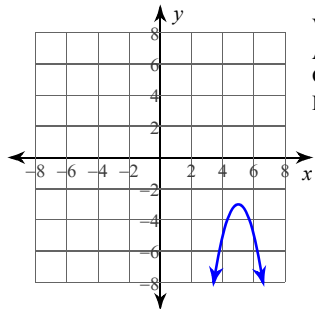
Vertex: (0, -1)  
Axis of Sym.:  $x = 0$   
Opens: Down  
Max value = -1

198)



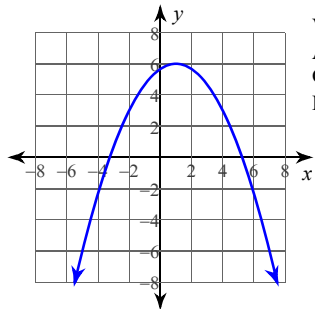
Vertex: (5, 5)  
Axis of Sym.:  $x = 5$   
Opens: Up  
Min value = 5

200)



Vertex: (5, -3)  
Axis of Sym.:  $x = 5$   
Opens: Down  
Max value = -3

202)



Vertex: (1, 6)  
Axis of Sym.:  $x = 1$   
Opens: Down  
Max value = 6

185) Axis of Sym.:  $x = 2$

y-int: 6  
x-int: 3 and 1

188) Axis of Sym.:  $x = 0$

y-int: -76  
x-int: 2 and -2

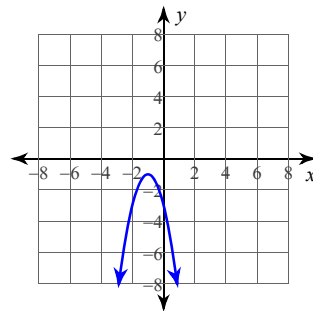
191) Axis of Sym.:  $x = -6$

y-int: 385  
x-int: -7 and -5

194) Axis of Sym.:  $x = 3$

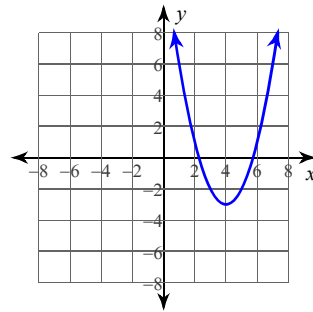
y-int: -28  
x-int: 7 and -1

197)



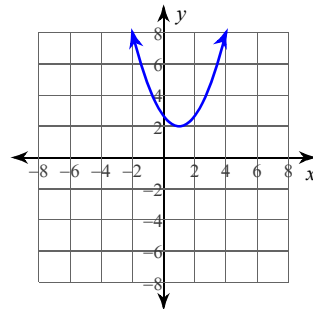
Vertex: (-1, -1)  
Axis of Sym.:  $x = -1$   
Opens: Down  
Max value = -1

199)



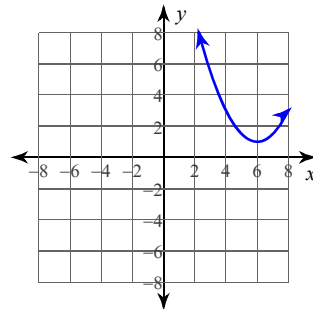
Vertex: (4, -3)  
Axis of Sym.:  $x = 4$   
Opens: Up  
Min value = -3

201)



Vertex: (1, 2)  
Axis of Sym.:  $x = 1$   
Opens: Up  
Min value = 2

203)



Vertex: (6, 1)  
Axis of Sym.:  $x = 6$   
Opens: Up  
Min value = 1

186) Axis of Sym.:  $x = 2$

y-int: 5  
x-int: None

189) Axis of Sym.:  $x = -3$

y-int:  $\frac{7}{4}$   
x-int: 1 and -7

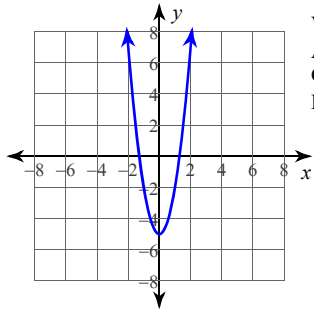
192) Axis of Sym.:  $x = 2$

y-int: -315  
x-int: 9 and -5

195) Axis of Sym.:  $x = -8$

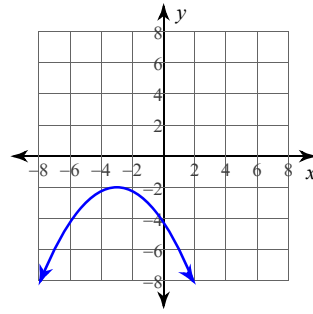
y-int: -129  
x-int: None

204)



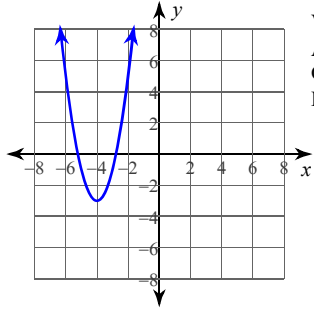
Vertex:  $(0, -5)$   
 Axis of Sym.:  $x = 0$   
 Opens: Up  
 Min value =  $-5$

205)



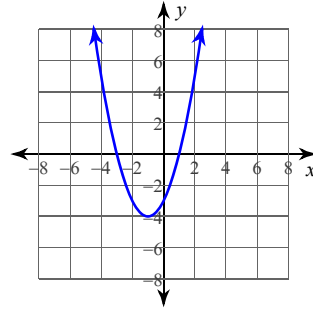
Vertex:  $(-3, -2)$   
 Axis of Sym.:  $x = -3$   
 Opens: Down  
 Max value =  $-2$

206)



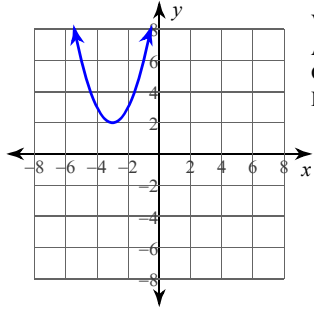
Vertex:  $(-4, -3)$   
 Axis of Sym.:  $x = -4$   
 Opens: Up  
 Min value =  $-3$

207)



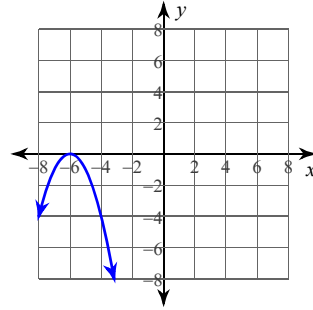
Vertex:  $(-1, -4)$   
 Axis of Sym.:  $x = -1$   
 Opens: Up  
 Min value =  $-4$

208)



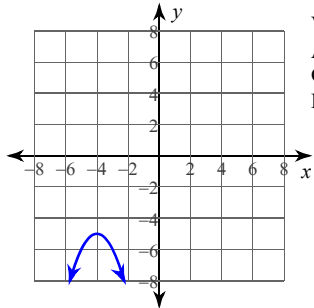
Vertex:  $(-3, 2)$   
 Axis of Sym.:  $x = -3$   
 Opens: Up  
 Min value =  $2$

209)



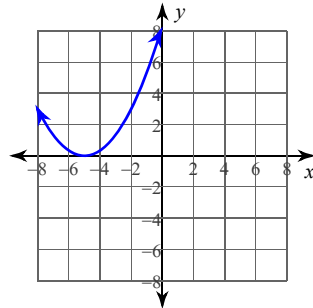
Vertex:  $(-6, 0)$   
 Axis of Sym.:  $x = -6$   
 Opens: Down  
 Max value =  $0$

210)



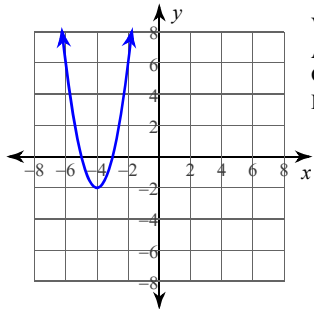
Vertex:  $(-4, -5)$   
 Axis of Sym.:  $x = -4$   
 Opens: Down  
 Max value =  $-5$

211)



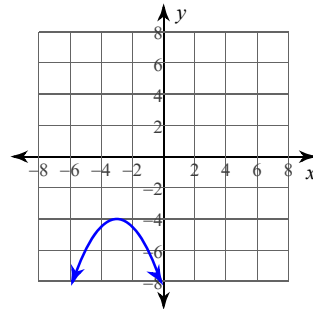
Vertex:  $(-5, 0)$   
 Axis of Sym.:  $x = -5$   
 Opens: Up  
 Min value =  $0$

212)



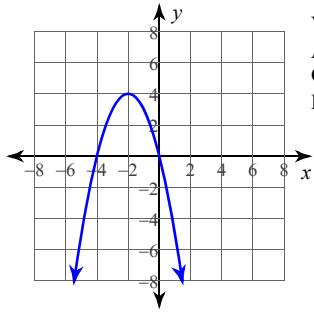
Vertex:  $(-4, -2)$   
 Axis of Sym.:  $x = -4$   
 Opens: Up  
 Min value =  $-2$

213)



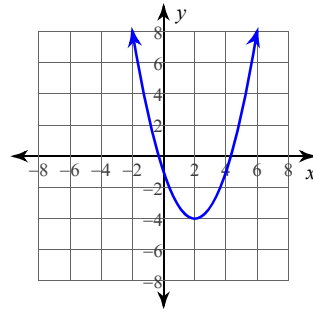
Vertex:  $(-3, -4)$   
 Axis of Sym.:  $x = -3$   
 Opens: Down  
 Max value =  $-4$

214)



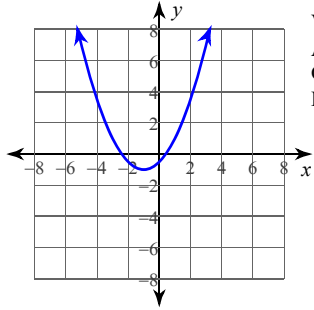
Vertex:  $(-2, 4)$   
 Axis of Sym.:  $x = -2$   
 Opens: Down  
 Max value = 4

215)



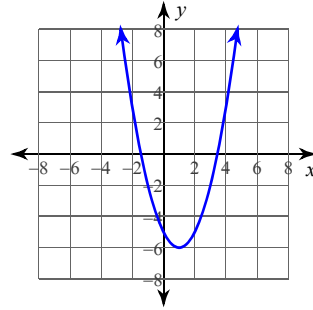
Vertex:  $(2, -4)$   
 Axis of Sym.:  $x = 2$   
 Opens: Up  
 Min value = -4

216)



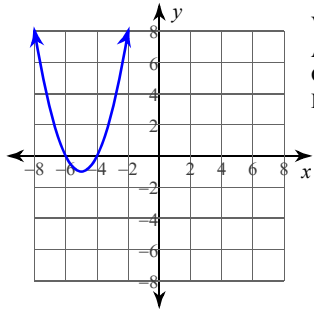
Vertex:  $(-1, -1)$   
 Axis of Sym.:  $x = -1$   
 Opens: Up  
 Min value = -1

217)



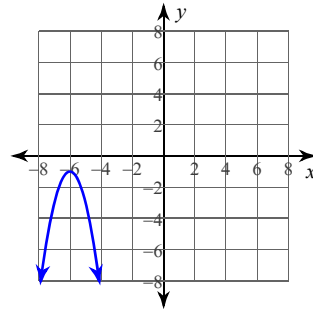
Vertex:  $(1, -6)$   
 Axis of Sym.:  $x = 1$   
 Opens: Up  
 Min value = -6

218)



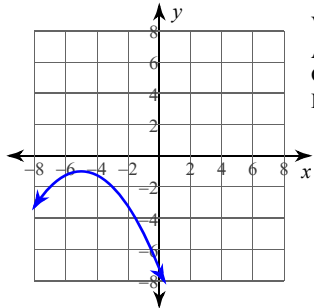
Vertex:  $(-5, -1)$   
 Axis of Sym.:  $x = -5$   
 Opens: Up  
 Min value = -1

219)



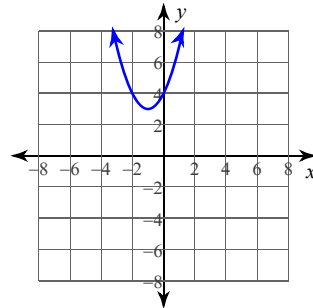
Vertex:  $(-6, -1)$   
 Axis of Sym.:  $x = -6$   
 Opens: Down  
 Max value = -1

220)



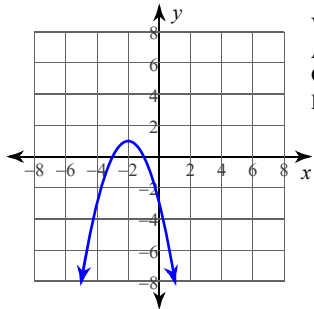
Vertex:  $(-5, -1)$   
 Axis of Sym.:  $x = -5$   
 Opens: Down  
 Max value = -1

221)



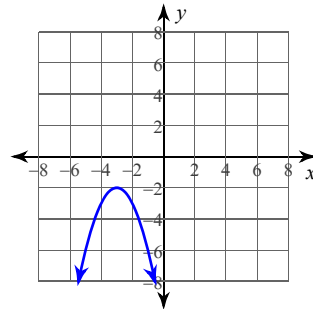
Vertex:  $(-1, 3)$   
 Axis of Sym.:  $x = -1$   
 Opens: Up  
 Min value = 3

222)



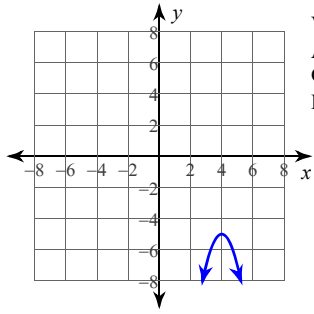
Vertex:  $(-2, 1)$   
 Axis of Sym.:  $x = -2$   
 Opens: Down  
 Max value = 1

223)



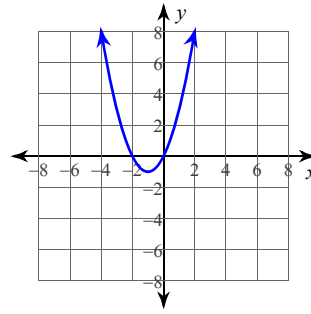
Vertex:  $(-3, -2)$   
 Axis of Sym.:  $x = -3$   
 Opens: Down  
 Max value = -2

224)



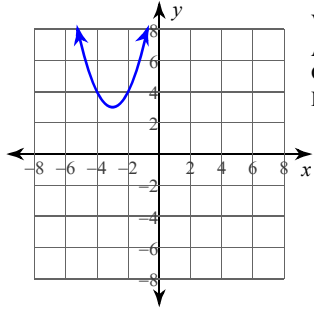
Vertex:  $(4, -5)$   
 Axis of Sym.:  $x = 4$   
 Opens: Down  
 Max value =  $-5$

225)



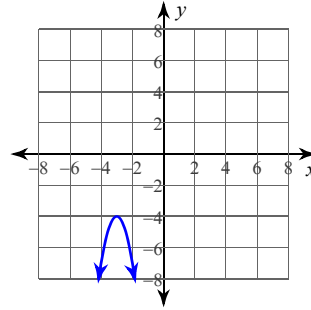
Vertex:  $(-1, -1)$   
 Axis of Sym.:  $x = -1$   
 Opens: Up  
 Min value =  $-1$

226)



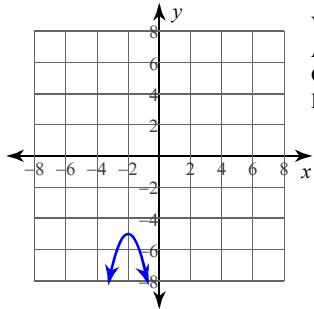
Vertex:  $(-3, 3)$   
 Axis of Sym.:  $x = -3$   
 Opens: Up  
 Min value =  $3$

227)



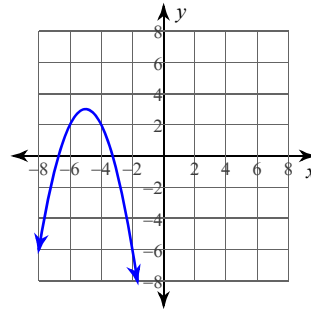
Vertex:  $(-3, -4)$   
 Axis of Sym.:  $x = -3$   
 Opens: Down  
 Max value =  $-4$

228)



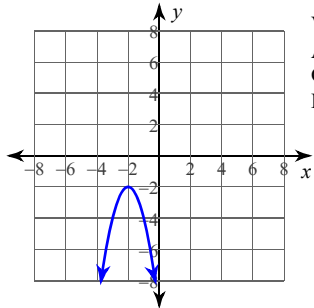
Vertex:  $(-2, -5)$   
 Axis of Sym.:  $x = -2$   
 Opens: Down  
 Max value =  $-5$

229)



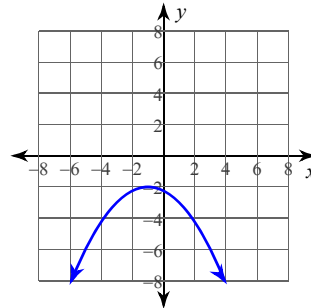
Vertex:  $(-5, 3)$   
 Axis of Sym.:  $x = -5$   
 Opens: Down  
 Max value =  $3$

230)



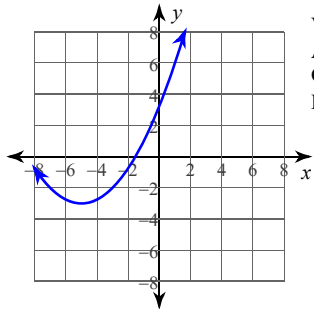
Vertex:  $(-2, -2)$   
 Axis of Sym.:  $x = -2$   
 Opens: Down  
 Max value =  $-2$

231)



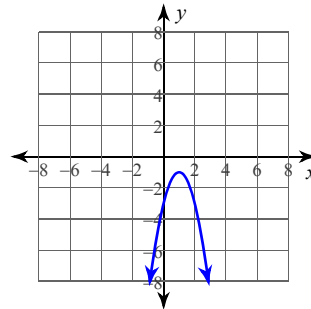
Vertex:  $(-1, -2)$   
 Axis of Sym.:  $x = -1$   
 Opens: Down  
 Max value =  $-2$

232)



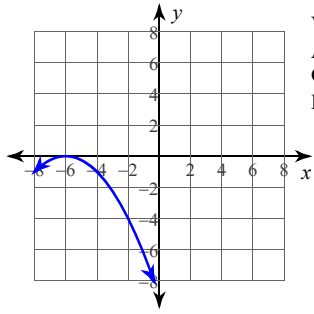
Vertex:  $(-5, -3)$   
 Axis of Sym.:  $x = -5$   
 Opens: Up  
 Min value =  $-3$

233)



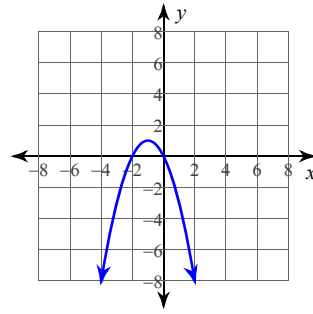
Vertex:  $(1, -1)$   
 Axis of Sym.:  $x = 1$   
 Opens: Down  
 Max value =  $-1$

234)



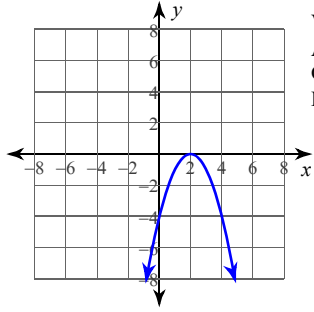
Vertex:  $(-6, 0)$   
 Axis of Sym.:  $x = -6$   
 Opens: Down  
 Max value = 0

235)



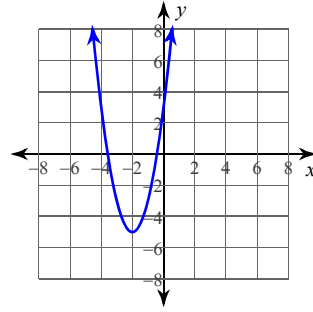
Vertex:  $(-1, 1)$   
 Axis of Sym.:  $x = -1$   
 Opens: Down  
 Max value = 1

236)



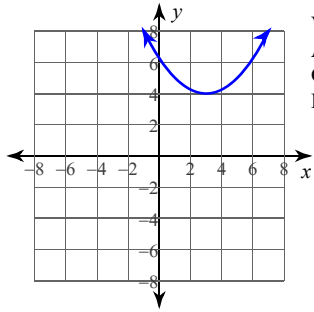
Vertex:  $(2, 0)$   
 Axis of Sym.:  $x = 2$   
 Opens: Down  
 Max value = 0

237)



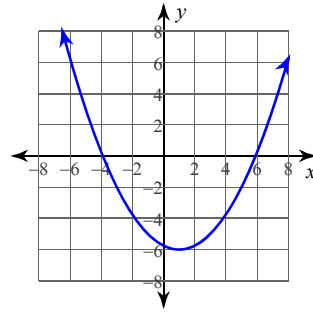
Vertex:  $(-2, -5)$   
 Axis of Sym.:  $x = -2$   
 Opens: Up  
 Min value = -5

238)



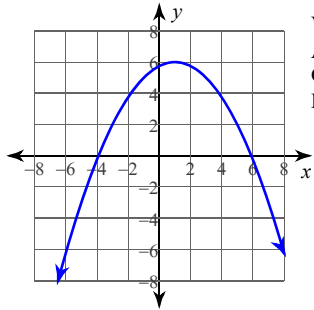
Vertex:  $(3, 4)$   
 Axis of Sym.:  $x = 3$   
 Opens: Up  
 Min value = 4

239)



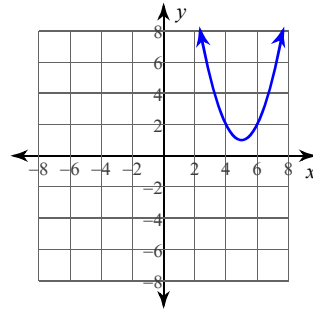
Vertex:  $(1, -6)$   
 Axis of Sym.:  $x = 1$   
 Opens: Up  
 Min value = -6

240)



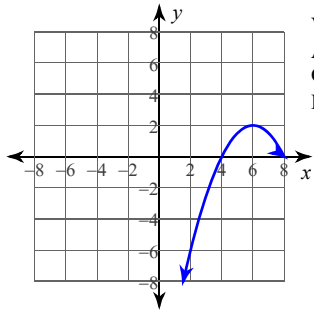
Vertex:  $(1, 6)$   
 Axis of Sym.:  $x = 1$   
 Opens: Down  
 Max value = 6

241)



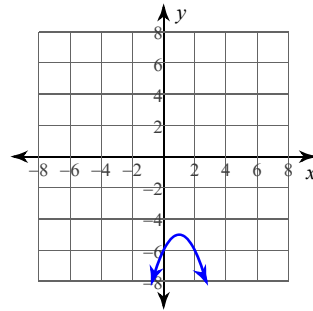
Vertex:  $(5, 1)$   
 Axis of Sym.:  $x = 5$   
 Opens: Up  
 Min value = 1

242)



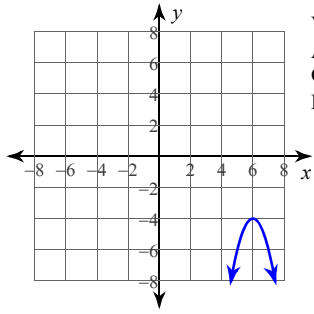
Vertex:  $(6, 2)$   
 Axis of Sym.:  $x = 6$   
 Opens: Down  
 Max value = 2

243)



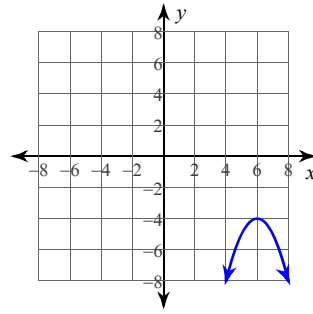
Vertex:  $(1, -5)$   
 Axis of Sym.:  $x = 1$   
 Opens: Down  
 Max value = -5

244)



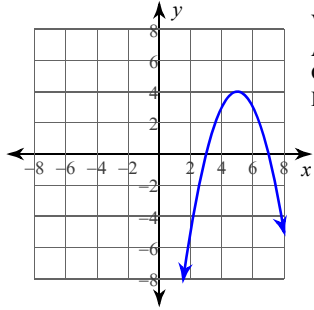
Vertex:  $(6, -4)$   
 Axis of Sym.:  $x = 6$   
 Opens: Down  
 Max value =  $-4$

245)



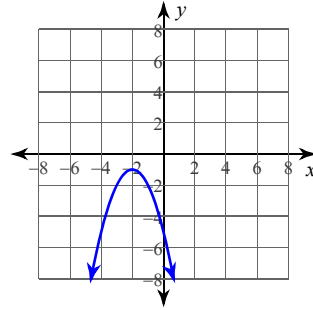
Vertex:  $(6, -4)$   
 Axis of Sym.:  $x = 6$   
 Opens: Down  
 Max value =  $-4$

246)



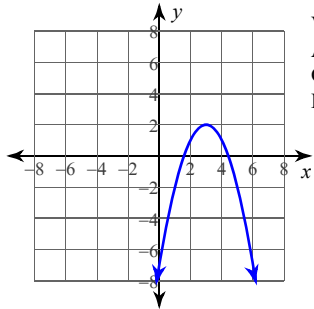
Vertex:  $(5, 4)$   
 Axis of Sym.:  $x = 5$   
 Opens: Down  
 Max value =  $4$

247)



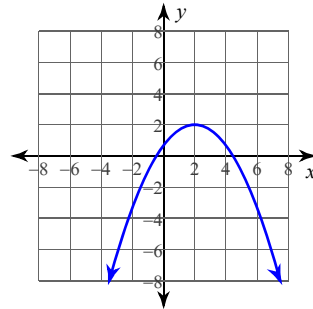
Vertex:  $(-2, -1)$   
 Axis of Sym.:  $x = -2$   
 Opens: Down  
 Max value =  $-1$

248)



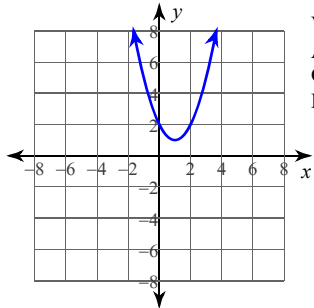
Vertex:  $(3, 2)$   
 Axis of Sym.:  $x = 3$   
 Opens: Down  
 Max value =  $2$

249)



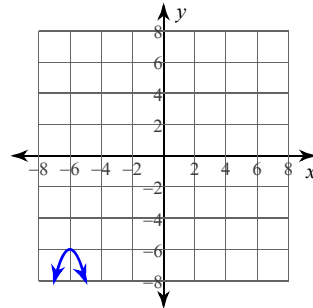
Vertex:  $(2, 2)$   
 Axis of Sym.:  $x = 2$   
 Opens: Down  
 Max value =  $2$

250)



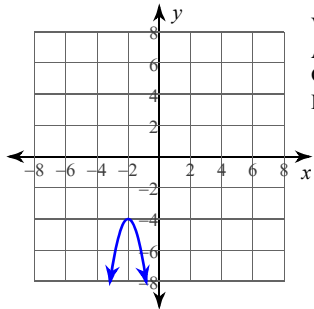
Vertex:  $(1, 1)$   
 Axis of Sym.:  $x = 1$   
 Opens: Up  
 Min value =  $1$

251)



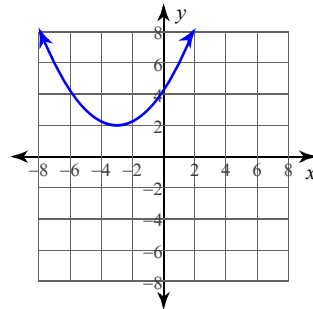
Vertex:  $(-6, -6)$   
 Axis of Sym.:  $x = -6$   
 Opens: Down  
 Max value =  $-6$

252)



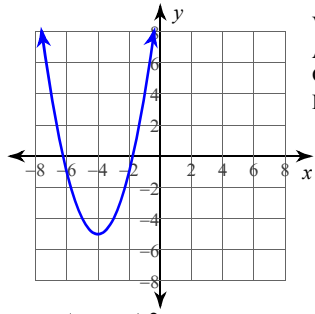
Vertex:  $(-2, -4)$   
 Axis of Sym.:  $x = -2$   
 Opens: Down  
 Max value =  $-4$

253)



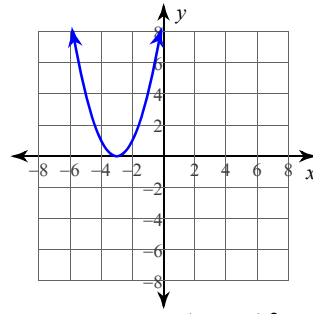
Vertex:  $(-3, 2)$   
 Axis of Sym.:  $x = -3$   
 Opens: Up  
 Min value =  $2$

254)



Vertex:  $(-4, -5)$   
 Axis of Sym.:  $x = -4$   
 Opens: Up  
 Min value =  $-5$

255)



Vertex:  $(-3, 0)$   
 Axis of Sym.:  $x = -3$   
 Opens: Up  
 Min value =  $0$

256)  $y = (x - 1)^2 - 7$

257)  $y = -8(x + 9)^2 + 6$

258)  $y = (x + 2)^2 - 5$

259)  $y = 3(x - 3)^2 - 5$

260)  $y = 4(x - 5)^2 + 3$

261)  $y = (x - 10)^2 + 4$

262)  $y = -2(x - 3)^2 - 7$

263)  $y = -\frac{1}{15}(x - 6)^2 - 7$

264)  $y = 8(x + 10)^2 - 8$

265)  $y = (x - 7)^2 + 8$

266)  $y = 7(x + 5)^2 - 5$

267)  $y = -(x + 10)^2 + 10$

268)  $y = -4(x + 7)^2 - 10$

269)  $y = 2(x - 5)^2 - 5$

270)  $y = 11(x + 7)^2 + 3$

271)  $y = -\frac{1}{2}(x - 1)^2 - 1$

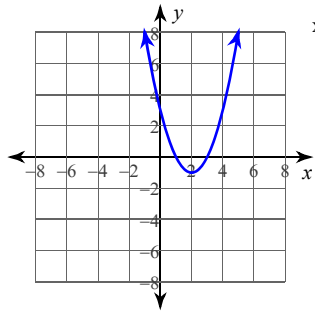
272)  $y = (x + 4)^2 - 8$

273)  $y = -\frac{1}{2}(x + 4)^2 + 9$

274)  $y = -3(x + 3)^2 - 5$

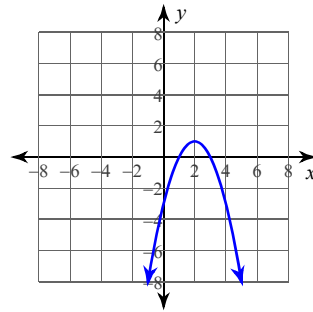
275)  $y = 2(x + 5)^2 - 10$

276)



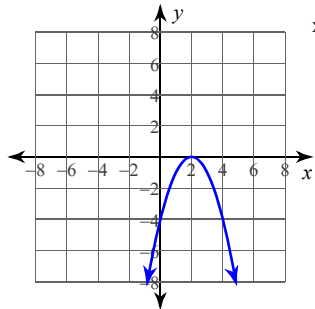
x-int: 3 and 1

277)



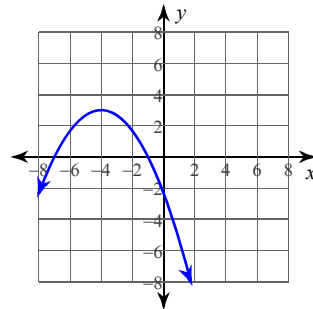
x-int: 3 and 1

278)

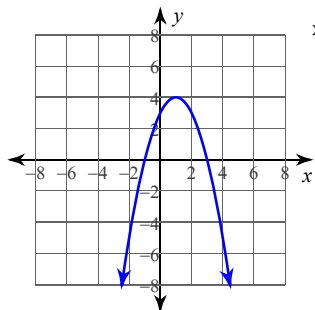


x-int: 2

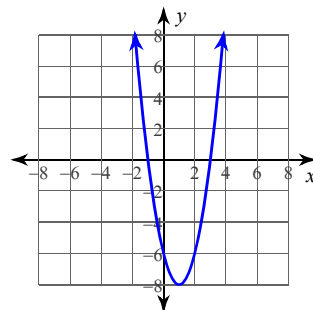
279)

x-int:  $-7$  and  $-1$ 

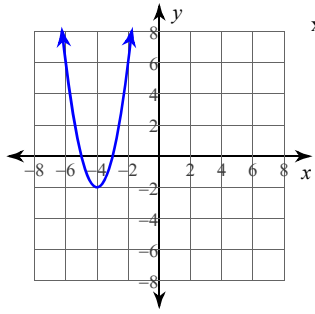
280)

x-int: 3 and  $-1$ 

281)

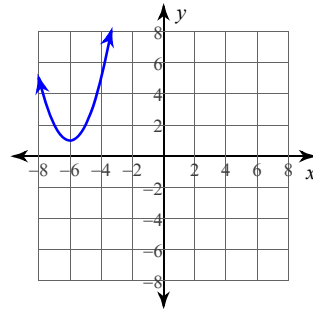
x-int: 3 and  $-1$

282)



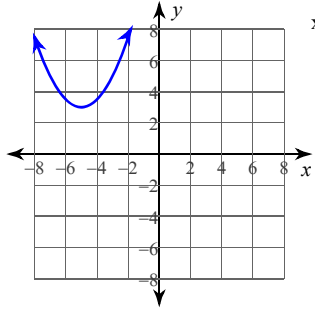
x-int: -5 and -3

283)



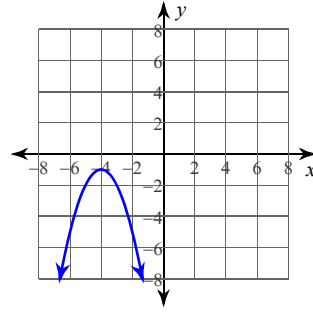
x-int: None

284)



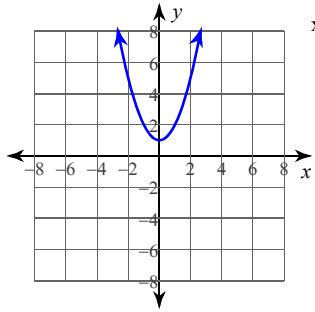
x-int: None

285)



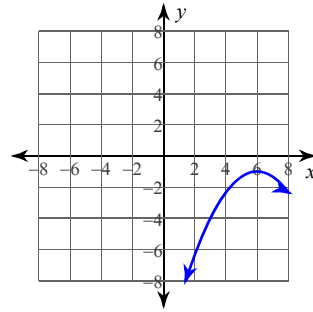
x-int: None

286)



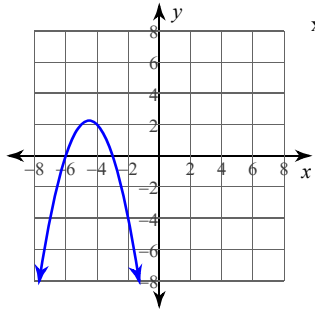
x-int: None

287)



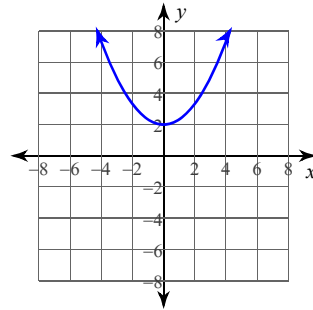
x-int: None

288)



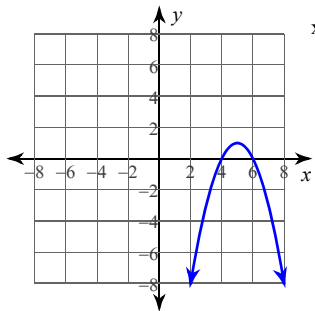
x-int: -6 and -3

289)



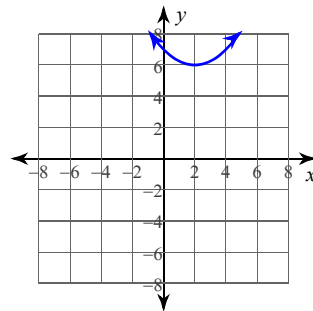
x-int: None

290)



x-int: 6 and 4

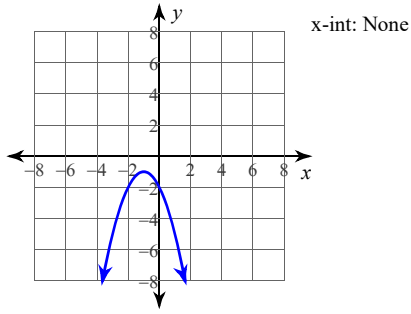
291)



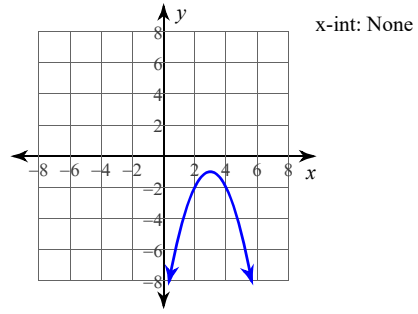
x-int: None



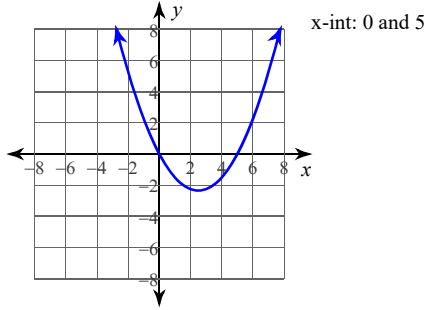
292)



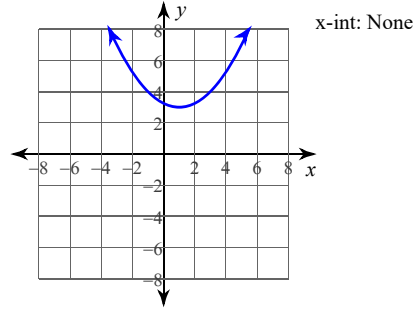
293)



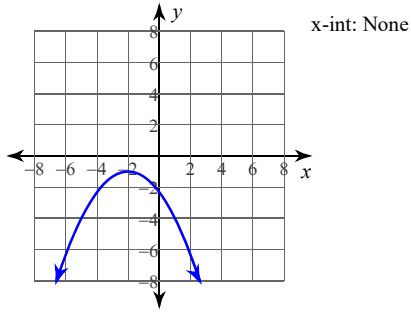
294)



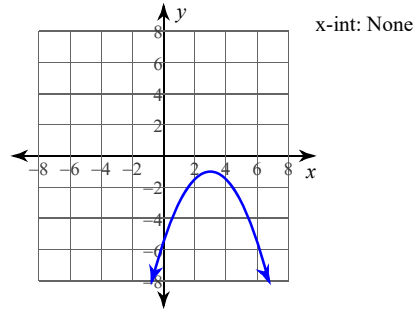
295)



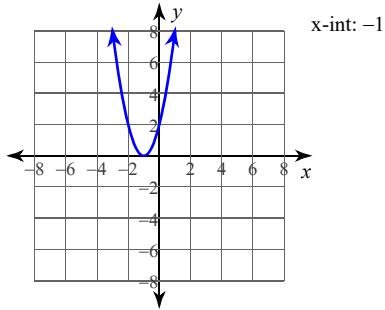
296)



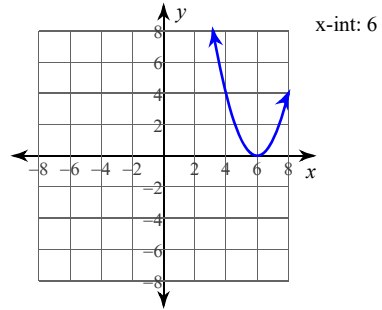
297)



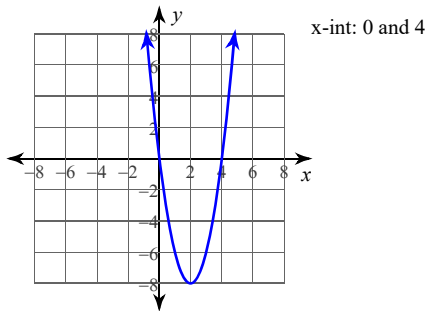
298)



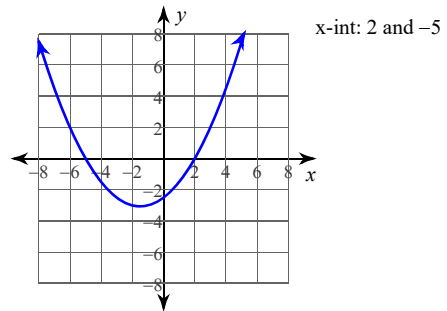
299)



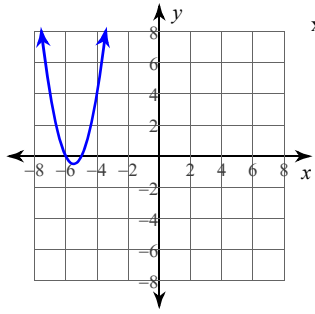
300)



301)

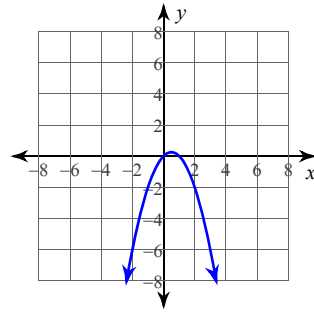


302)



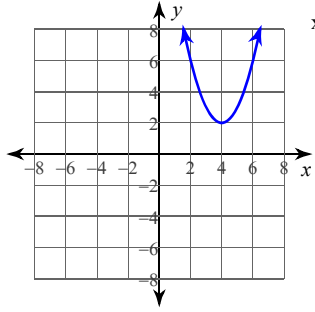
x-int: -6 and -5

303)



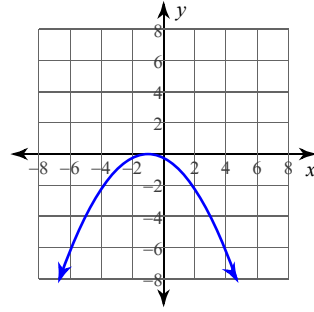
x-int: 0 and 1

304)



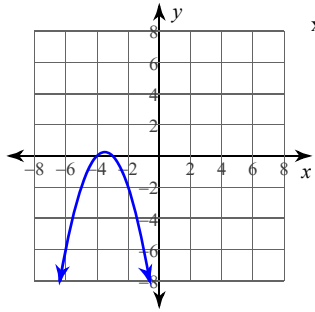
x-int: None

305)



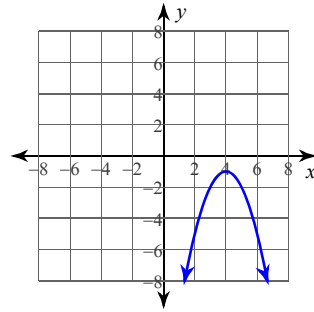
x-int: -1

306)



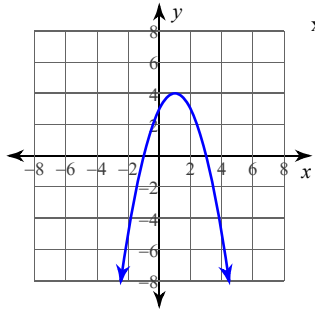
x-int: -4 and -3

307)



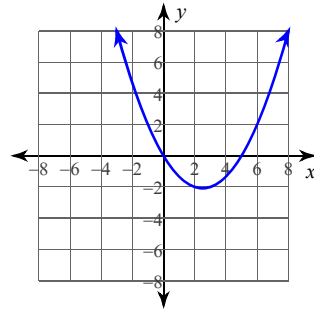
x-int: None

308)



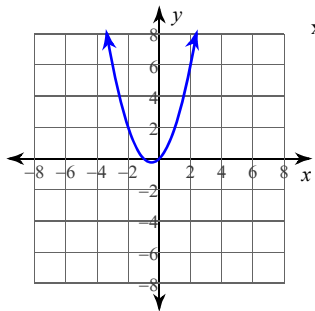
x-int: 3 and -1

309)



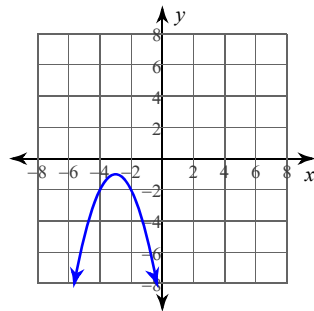
x-int: 0 and 5

310)



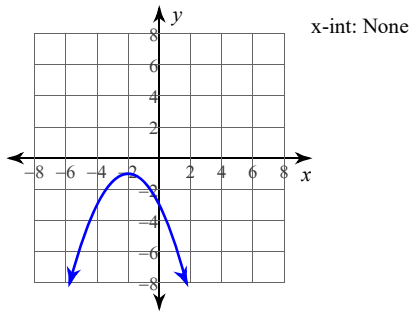
x-int: 0 and -1

311)

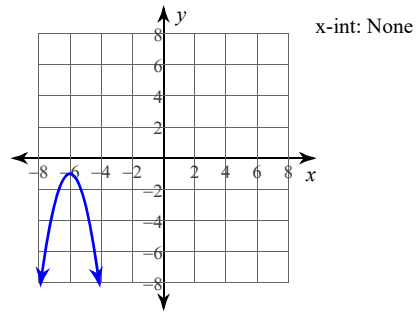


x-int: None

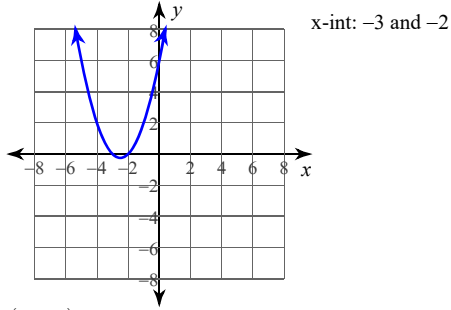
312)



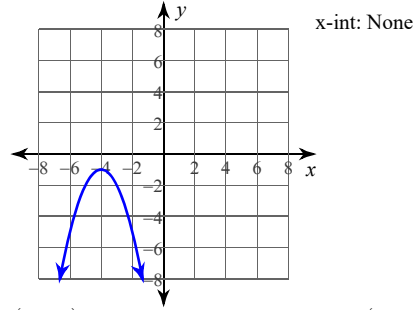
313)



314)



315)

316)  $\{4, 2\}$ 317)  $\left\{-\frac{8}{5}, \frac{4}{7}\right\}$ 318)  $\{6, 3\}$ 319)  $\{3, -8\}$ 320)  $\left\{\frac{1}{7}, 5\right\}$ 321)  $\{-7, -6\}$ 322)  $\{-8, -2\}$ 323)  $\{-3, 2\}$ 324)  $\{-1, -4\}$ 325)  $\left\{\frac{3}{5}, -5\right\}$ 326)  $\{-5, 2\}$ 327)  $\{2, -8\}$ 328)  $\{-6, 7\}$ 329)  $\{-5, 1\}$ 330)  $\{1, -7\}$ 331)  $\{8, 6\}$ 332)  $\{2, -7\}$ 333)  $\{-3, 0\}$ 334)  $\{-1, 7\}$ 335)  $\{4, -4\}$ 336)  $\left\{\frac{1}{3}, 3\right\}$ 337)  $\left\{\frac{3}{2}, -8\right\}$ 338)  $\left\{\frac{8}{3}, 2\right\}$ 339)  $\left\{-\frac{1}{7}, 3\right\}$ 340)  $\left\{-\frac{4}{3}, -5\right\}$ 341)  $\left\{-\frac{2}{7}, 7\right\}$ 342)  $\left\{-\frac{4}{7}, -3\right\}$ 343)  $\left\{-\frac{8}{5}, 1\right\}$ 344)  $\left\{\frac{2}{3}, 1\right\}$ 345)  $\left\{-\frac{7}{3}, \frac{4}{5}\right\}$ 346)  $\left\{-\frac{5}{7}, \frac{8}{7}\right\}$ 347)  $\left\{-\frac{2}{5}, -6\right\}$ 348)  $\left\{\frac{4}{7}, 5\right\}$ 349)  $\left\{\frac{6}{7}, -5\right\}$ 350)  $\left\{-\frac{5}{7}, 2\right\}$ 351)  $\left\{\frac{2}{5}, 8\right\}$ 352)  $\left\{\frac{8}{7}, 4\right\}$ 353)  $\left\{\frac{1}{7}, 6\right\}$ 354)  $\left\{\frac{5}{4}, -2\right\}$ 355)  $\left\{\frac{3}{7}, 2\right\}$ 356)  $\left\{-\frac{4}{5}, -2\right\}$ 357)  $\left\{-\frac{4}{7}, 2\right\}$ 358)  $\left\{-\frac{8}{3}, -\frac{5}{2}\right\}$ 359)  $\left\{-\frac{5}{3}, 3\right\}$ 360)  $\left\{-\frac{6}{5}, -5\right\}$ 361)  $\left\{\frac{1}{7}, -\frac{7}{2}\right\}$ 362)  $\left\{\frac{3}{2}, 2\right\}$ 363)  $\left\{-\frac{8}{3}, 8\right\}$ 364)  $\left\{\frac{7}{5}, 2\right\}$ 365)  $\left\{\frac{3}{2}, 3\right\}$ 366)  $\{1, 4\}$ 367)  $\left\{\frac{2}{3}, 6\right\}$ 368)  $\{4, 7\}$ 369)  $\{-5, 2\}$ 370)  $\left\{-\frac{5}{2}\right\}$ 371)  $\{1, 4\}$ 372)  $\{-5, -\frac{1}{5}\}$ 373)  $\left\{-\frac{4}{3}, 5\right\}$ 374)  $\left\{-\frac{3}{2}, \frac{5}{2}\right\}$ 375)  $\left\{-\frac{5}{2}, 1\right\}$ 376)  $\{3\}$ 377)  $\left\{-\frac{2}{3}, 4\right\}$ 378)  $\left\{\frac{1}{2}\right\}$ 379)  $\{0, -16\}$

- 380)  $\{-\frac{7}{2}, 1\}$  381)  $\{-\frac{1}{2}, \frac{1}{3}, \frac{2}{3}\}$  382)  $\{\sqrt{2}, -\sqrt{2}\}$  383)  $\{2\sqrt{7}, -2\sqrt{7}\}$   
384)  $\{\sqrt{47}, -\sqrt{47}\}$  385)  $\{\sqrt{73}, -\sqrt{73}\}$  386)  $\{2, -2\}$  387)  $\{5, -5\}$   
388)  $\{4, -4\}$  389)  $\{6, -6\}$  390)  $\{\sqrt{7}, -\sqrt{7}\}$  391)  $\{\sqrt{89}, -\sqrt{89}\}$   
392)  $\{\frac{10}{7}, -\frac{10}{7}\}$  393)  $\{3\sqrt{7}, -3\sqrt{7}\}$  394)  $\{\sqrt{82}, -\sqrt{82}\}$  395)  $\{\frac{2}{3}, -\frac{2}{3}\}$   
396)  $\{\sqrt{35}, -\sqrt{35}\}$  397)  $\{3\sqrt{2}, -3\sqrt{2}\}$  398)  $\{1, -1\}$  399)  $\{2\sqrt{7}, -2\sqrt{7}\}$   
400)  $\{\sqrt{43}, -\sqrt{43}\}$  401)  $\{7, -7\}$  402)  $\{2\sqrt{13}, -2\sqrt{13}\}$  403)  $\{\sqrt{13}, -\sqrt{13}\}$   
404)  $\{\frac{5}{2}, -\frac{5}{2}\}$  405)  $\{\frac{2}{3}, -\frac{2}{3}\}$  406)  $\{3\sqrt{3}, -3\sqrt{3}\}$  407)  $\{\sqrt{77}, -\sqrt{77}\}$   
408)  $\{3\sqrt{6}, -3\sqrt{6}\}$  409)  $\{\frac{5}{4}, -\frac{5}{4}\}$  410)  $\{10, -10\}$  411)  $\{\frac{7}{6}, -\frac{7}{6}\}$   
412)  $\{2\sqrt{22}, -2\sqrt{22}\}$  413)  $\{\frac{9}{7}, -\frac{9}{7}\}$  414)  $\{\frac{5}{4}, -\frac{5}{4}\}$  415)  $\{1, -1\}$   
416)  $\{\frac{1}{7}, -\frac{1}{7}\}$  417)  $\{\sqrt{22}, -\sqrt{22}\}$  418)  $\{2\sqrt{13}, -2\sqrt{13}\}$  419)  $\{1, -1\}$   
420)  $\{\sqrt{62}, -\sqrt{62}\}$  421)  $\{1, -1\}$  422)  $\{\frac{i\sqrt{26}}{2}, -\frac{i\sqrt{26}}{2}\}$  423)  $\{2i\sqrt{3}, -2i\sqrt{3}\}$   
424)  $\{\frac{i\sqrt{14}}{2}, -\frac{i\sqrt{14}}{2}\}$  425)  $\{\frac{i\sqrt{31}}{2}, -\frac{i\sqrt{31}}{2}\}$  426)  $\{\frac{i\sqrt{70}}{2}, -\frac{i\sqrt{70}}{2}\}$   
427)  $\{\frac{\sqrt{1410}}{10}, -\frac{\sqrt{1410}}{10}\}$  428)  $\{\frac{i\sqrt{43}}{3}, -\frac{i\sqrt{43}}{3}\}$  429)  $\{\frac{i\sqrt{15}}{3}, -\frac{i\sqrt{15}}{3}\}$   
430)  $\{i\sqrt{17}, -i\sqrt{17}\}$  431)  $\{\frac{i\sqrt{85}}{2}, -\frac{i\sqrt{85}}{2}\}$  432)  $\{\frac{i\sqrt{6}}{2}, -\frac{i\sqrt{6}}{2}\}$   
433)  $\{\frac{i\sqrt{177}}{3}, -\frac{i\sqrt{177}}{3}\}$  434)  $\{i\sqrt{13}, -i\sqrt{13}\}$  435)  $\{\frac{\sqrt{1330}}{10}, -\frac{\sqrt{1330}}{10}\}$   
436)  $\{\frac{4\sqrt{15}}{5}, -\frac{4\sqrt{15}}{5}\}$  437)  $\{i\sqrt{6}, -i\sqrt{6}\}$  438)  $\{\frac{3\sqrt{14}}{7}, -\frac{3\sqrt{14}}{7}\}$   
439)  $\{\frac{2i\sqrt{30}}{5}, -\frac{2i\sqrt{30}}{5}\}$  440)  $\{\frac{i\sqrt{22}}{2}, -\frac{i\sqrt{22}}{2}\}$  441)  $\{4i, -4i\}$   
442)  $\{\sqrt{31}, -\sqrt{31}\}$  443)  $\{\sqrt{15}, -\sqrt{15}\}$  444)  $\{\sqrt{2}, -\sqrt{2}\}$  445)  $\{7\sqrt{2}, -7\sqrt{2}\}$   
446)  $\{1, -1\}$  447)  $\{10, -10\}$  448)  $\{9, -9\}$  449)  $\{5\sqrt{2}, -5\sqrt{2}\}$   
450)  $\{3, -3\}$  451)  $\{2\sqrt{21}, -2\sqrt{21}\}$  452) x-int: 0 and 2 453) x-int: 3 and 1  
454) x-int: None 455) x-int: None 456) x-int: 8 and -10 457) x-int: 10 and -6  
458) x-int: -7 and -6 459) x-int: 9 and -10 460) x-int: 10 and -5 461) x-int: 7 and 6  
462) x-int: 3 and -2 463) x-int: None 464) x-int: -8 and -7 465) x-int: None  
466) x-int: -3 and -2 467) x-int: 5 and -10 468) x-int: 6 and -5 469) x-int: 7 and -2  
470) x-int: None 471)  $\{23, -3\}$  472)  $\{-2 + 5\sqrt{3}, -2 - 5\sqrt{3}\}$   
473)  $\{-1 + \sqrt{69}, -1 - \sqrt{69}\}$  474)  $\{7 + 5\sqrt{5}, 7 - 5\sqrt{5}\}$  475)  $\{4, -20\}$   
476)  $\{-2 + 2\sqrt{26}, -2 - 2\sqrt{26}\}$  477)  $\{16, -4\}$  478)  $\{-4 + \sqrt{19}, -4 - \sqrt{19}\}$   
479)  $\{8, 2\}$  480)  $\{1, -3\}$  481)  $\{1, -3\}$  482)  $\{4, -2\}$   
483)  $\{3, -1\}$  484)  $\{\frac{10 + \sqrt{70}}{10}, \frac{10 - \sqrt{70}}{10}\}$   
485)  $\{\frac{-10 + \sqrt{430}}{10}, \frac{-10 - \sqrt{430}}{10}\}$  486)  $\{\frac{5 + 7\sqrt{5}}{5}, \frac{5 - 7\sqrt{5}}{5}\}$

- 487)  $\left\{ \frac{10 + \sqrt{290}}{10}, \frac{10 - \sqrt{290}}{10} \right\}$       488)  $\left\{ \frac{-3 + 2\sqrt{33}}{3}, \frac{-3 - 2\sqrt{33}}{3} \right\}$       489)  $\left\{ \frac{-5 + 7\sqrt{10}}{5}, \frac{-5 - 7\sqrt{10}}{5} \right\}$
- 490)  $\{3, -13\}$       491)  $\left\{ \frac{7 + \sqrt{182}}{7}, \frac{7 - \sqrt{182}}{7} \right\}$       492)  $\left\{ \frac{7 + 3\sqrt{21}}{7}, \frac{7 - 3\sqrt{21}}{7} \right\}$
- 493)  $\{1, -3\}$       494)  $\left\{ \frac{5 + 6\sqrt{5}}{5}, \frac{5 - 6\sqrt{5}}{5} \right\}$       495)  $\left\{ \frac{8}{3}, -\frac{2}{3} \right\}$
- 496)  $\{2 + \sqrt{7}, 2 - \sqrt{7}\}$       497)  $\left\{ \frac{3 + 5\sqrt{3}}{3}, \frac{3 - 5\sqrt{3}}{3} \right\}$       498)  $\{6, -4\}$
- 499)  $\left\{ \frac{9 + 2\sqrt{42}}{3}, \frac{9 - 2\sqrt{42}}{3} \right\}$       500)  $\left\{ \frac{-3 + \sqrt{22}}{3}, \frac{-3 - \sqrt{22}}{3} \right\}$       501)  $\left\{ \frac{9}{2}, -3 \right\}$
- 502)  $\{12, -3\}$       503)  $\left\{ \frac{6 + \sqrt{151}}{5}, \frac{6 - \sqrt{151}}{5} \right\}$       504)  $\left\{ \frac{-2 + 2\sqrt{43}}{3}, \frac{-2 - 2\sqrt{43}}{3} \right\}$
- 505)  $\left\{ \frac{23}{4}, -2 \right\}$       506)  $\left\{ \frac{17 + \sqrt{1513}}{12}, \frac{17 - \sqrt{1513}}{12} \right\}$       507)  $\left\{ -2, -\frac{5}{2} \right\}$
- 508)  $\left\{ \frac{-5 + \sqrt{3}}{4}, \frac{-5 - \sqrt{3}}{4} \right\}$       509)  $\left\{ \frac{-1 + 7\sqrt{29}}{10}, \frac{-1 - 7\sqrt{29}}{10} \right\}$       510)  $\left\{ 1, \frac{1}{8} \right\}$
- 511)  $\left\{ 5, -\frac{15}{2} \right\}$       512)  $\left\{ \frac{15}{7}, -4 \right\}$       513)  $\left\{ \frac{12}{5}, -2 \right\}$       514)  $\left\{ 5, \frac{2}{3} \right\}$
- 515)  $\left\{ \frac{21}{2}, -2 \right\}$       516)  $\left\{ \frac{1 + \sqrt{51}}{3}, \frac{1 - \sqrt{51}}{3} \right\}$       517)  $\left\{ -\frac{1}{2}, -1 \right\}$
- 518)  $\left\{ 2, -\frac{9}{4} \right\}$       519)  $\left\{ \frac{8 + \sqrt{211}}{7}, \frac{8 - \sqrt{211}}{7} \right\}$       520)  $\left\{ \frac{9}{5}, -\frac{3}{2} \right\}$
- 521)  $\left\{ \frac{3}{2}, -2 \right\}$       522)  $\left\{ \frac{13 + \sqrt{737}}{4}, \frac{13 - \sqrt{737}}{4} \right\}$       523)  $\{12, 3\}$
- 524)  $\left\{ \frac{9 + i\sqrt{1123}}{14}, \frac{9 - i\sqrt{1123}}{14} \right\}$       525)  $\left\{ \frac{-1 + \sqrt{85}}{2}, \frac{-1 - \sqrt{85}}{2} \right\}$
- 526)  $\left\{ \frac{-1 + i\sqrt{47}}{2}, \frac{-1 - i\sqrt{47}}{2} \right\}$       527)  $\left\{ \frac{-1 + \sqrt{105}}{2}, \frac{-1 - \sqrt{105}}{2} \right\}$
- 528)  $\left\{ \frac{-19 + \sqrt{109}}{6}, \frac{-19 - \sqrt{109}}{6} \right\}$       529)  $\left\{ \frac{-7 + 5i\sqrt{7}}{8}, \frac{-7 - 5i\sqrt{7}}{8} \right\}$
- 530)  $\left\{ \frac{13 + i\sqrt{803}}{18}, \frac{13 - i\sqrt{803}}{18} \right\}$       531)  $\left\{ \frac{1 + \sqrt{73}}{2}, \frac{1 - \sqrt{73}}{2} \right\}$
- 532)  $\left\{ \frac{-11 + \sqrt{113}}{2}, \frac{-11 - \sqrt{113}}{2} \right\}$       533)  $\left\{ \frac{7 + \sqrt{13}}{2}, \frac{7 - \sqrt{13}}{2} \right\}$
- 534)  $\left\{ \frac{5 + i\sqrt{61}}{2}, \frac{5 - i\sqrt{61}}{2} \right\}$       535)  $\{2, -7\}$
- 536)  $\left\{ \frac{-13 + i\sqrt{159}}{2}, \frac{-13 - i\sqrt{159}}{2} \right\}$       537)  $\left\{ \frac{7 + i\sqrt{179}}{2}, \frac{7 - i\sqrt{179}}{2} \right\}$
- 538)  $\left\{ \frac{-5 + 5i\sqrt{31}}{4}, \frac{-5 - 5i\sqrt{31}}{4} \right\}$       539)  $\left\{ \frac{7}{2}, 2 \right\}$
- 540)  $\left\{ \frac{17 + i\sqrt{35}}{2}, \frac{17 - i\sqrt{35}}{2} \right\}$       541)  $\{5, -5\}$       542)  $\left\{ \frac{-3 + \sqrt{377}}{8}, \frac{-3 - \sqrt{377}}{8} \right\}$
- 543)  $\{7, -7\}$

$$\begin{array}{lll}
544) \left\{ \frac{-5 + \sqrt{253}}{6}, \frac{-5 - \sqrt{253}}{6} \right\} & 545) \left\{ \frac{11}{3}, -2 \right\} & 546) \left\{ \frac{\sqrt{42}}{6}, -\frac{\sqrt{42}}{6} \right\} \\
547) \{1, -1\} & 548) \{14, -6\} & 549) \left\{ \frac{5}{2}, -3 \right\} \\
550) \left\{ \frac{3 + \sqrt{57}}{4}, \frac{3 - \sqrt{57}}{4} \right\} & 551) \{2, 3\} & 552) \left\{ \frac{-5 + \sqrt{3}}{11}, \frac{-5 - \sqrt{3}}{11} \right\} \\
553) \left\{ \frac{11 + \sqrt{349}}{6}, \frac{11 - \sqrt{349}}{6} \right\} & 554) \left\{ \frac{7 - \sqrt{689}}{16}, \frac{7 + \sqrt{689}}{16} \right\} & 555) \left\{ \frac{-4 + \sqrt{163}}{7}, \frac{-4 - \sqrt{163}}{7} \right\} \\
556) \left\{ -1, -\frac{5}{6} \right\} & 557) \{-3, 13\} & 558) \{-11, 2\} \\
559) \left\{ -\frac{9}{2}, 3 \right\} \\
560) \left\{ \frac{-3 - 4\sqrt{2}}{2}, \frac{-3 + 4\sqrt{2}}{2} \right\} & 561) \left\{ \frac{6 + \sqrt{38}}{2}, \frac{6 - \sqrt{38}}{2} \right\} & 562) \{6, -11\} \\
563) \left\{ \frac{26}{5}, -5 \right\} & 564) \left\{ \frac{3 + \sqrt{15}}{2}, \frac{3 - \sqrt{15}}{2} \right\} & 565) \left\{ -\frac{\sqrt{230}}{10}, \frac{\sqrt{230}}{10} \right\} \\
566) \left\{ -\frac{1}{2}, \frac{1}{3} \right\} & 567) \left\{ 1, -\frac{6}{5} \right\} & 568) \left\{ \frac{1}{3}, 1 \right\} \\
569) \{5, -5\} \\
570) \left\{ \frac{5 + \sqrt{985}}{20}, \frac{5 - \sqrt{985}}{20} \right\} & 571) \left\{ \frac{\sqrt{5}}{5}, -\frac{\sqrt{5}}{5} \right\} & 572) \left\{ \frac{1 + \sqrt{11}}{4}, \frac{1 - \sqrt{11}}{4} \right\} \\
573) \left\{ \frac{i\sqrt{7}}{3}, -\frac{i\sqrt{7}}{3} \right\} & 574) \left\{ 7, -\frac{11}{2} \right\} & 575) \left\{ \frac{7 - i\sqrt{527}}{24}, \frac{7 + i\sqrt{527}}{24} \right\} \\
576) \{8, -14\} & 577) \left\{ \frac{2 - i\sqrt{95}}{11}, \frac{2 + i\sqrt{95}}{11} \right\} & 578) \left\{ \frac{-3 + 3\sqrt{2}}{2}, \frac{-3 - 3\sqrt{2}}{2} \right\} \\
579) \{-5\} & 580) \left\{ \frac{-9 + i\sqrt{447}}{22}, \frac{-9 - i\sqrt{447}}{22} \right\} & 581) \left\{ -\frac{\sqrt{14}}{7}, \frac{\sqrt{14}}{7} \right\} \\
582) \{-6, 6\} & 583) \{6, -6\} & 584) \left\{ \frac{1 + i\sqrt{319}}{20}, \frac{1 - i\sqrt{319}}{20} \right\} \\
585) \{10, -6\} & 586) \left\{ \frac{-1 - i\sqrt{47}}{8}, \frac{-1 + i\sqrt{47}}{8} \right\} & \\
587) \left\{ \frac{-1 - i\sqrt{359}}{20}, \frac{-1 + i\sqrt{359}}{20} \right\} & 588) \left\{ \frac{1 + i\sqrt{2}}{3}, \frac{1 - i\sqrt{2}}{3} \right\} & \\
589) \left\{ \frac{-11 + \sqrt{53}}{2}, \frac{-11 - \sqrt{53}}{2} \right\} & 590) \left\{ 2, -\frac{8}{3} \right\} & 591) \{2\} \\
592) \{2\} & 593) \{-1\} & 594) \{6, -1\} \\
595) \{1, -1\} & 596) \{-2, -1\} & 597) \left\{ \frac{1}{4} \right\} \\
598) \left\{ \frac{1}{4} \right\} & 599) \{2, -1\} \\
600) \left\{ -\frac{1}{3} \right\} & 601) \left\{ -\frac{5}{6} \right\} & 602) \{10, 2\} \\
603) \{-5, -4\} \\
604) \{1, -7\} & 605) \left\{ -\frac{3}{2}, -\frac{5}{4} \right\} & 606) \left\{ 3, -\frac{2}{3} \right\} \\
607) \{1, -3\} \\
608) \left\{ -\frac{3}{2}, -\frac{1}{2} \right\} & 609) \{1, -1\} & 610) \left\{ -1, -\frac{11}{6} \right\} \\
611) \left\{ -\frac{18}{5} \right\} \\
612) \left\{ \frac{9}{2}, \frac{8}{3} \right\} & 613) \left\{ \frac{3}{2} \right\} & 614) \left\{ -1, -\frac{27}{5} \right\} \\
615) \left\{ 5, -\frac{1}{2} \right\}
\end{array}$$

- 616)  $\left\{\frac{24}{5}\right\}$       617)  $\{5, 1\}$       618)  $\{12\}$       619)  $\left\{\frac{9}{2}, -6\right\}$   
620)  $\left\{\frac{3}{2}, -1\right\}$       621)  $\left\{-\frac{9}{4}\right\}$       622)  $\{-1\}$       623)  $\left\{1, -\frac{6}{5}\right\}$   
624)  $\{1, -1\}$       625)  $\{12\}$       626)  $\{-6, -3\}$       627)  $\left\{0, \frac{7}{4}\right\}$   
628)  $\{-3\}$       629)  $\left\{\frac{27}{4}\right\}$       630)  $\{6\}$       631)  $\left\{0, \frac{7}{6}\right\}$   
632)  $\left\{-\frac{11}{3}\right\}$       633)  $\left\{2, -\frac{11}{2}\right\}$       634)  $\{-8\}$       635)  $\left\{-\frac{11}{2}\right\}$   
636)  $\left\{-\frac{13}{3}\right\}$       637)  $\{-3\}$       638)  $\left\{-\frac{3}{2}\right\}$       639)  $\{5, 2\}$   
640)  $\left\{1, -\frac{3}{2}\right\}$       641)  $\{1\}$       642)  $\{20\}$       643)  $\{0, 8\}$   
644)  $\left\{\frac{18}{5}\right\}$       645)  $\left\{-\frac{16}{5}\right\}$       646)  $\{1\}$       647)  $\{-3\}$   
648)  $\left\{\frac{1}{3}, -\frac{7}{2}\right\}$       649)  $\{0, -10\}$       650)  $\left\{\frac{1}{3}, -\frac{7}{2}\right\}$       651)  $\{8\}$   
652)  $\{4, -4\}$       653)  $\{-1\}$       654)  $\{7\}$       655)  $\{-4\}$   
656)  $\{3, -6\}$       657)  $\left\{\frac{22}{5}\right\}$       658)  $\{3, -2\}$       659)  $\left\{\frac{8}{3}, -3\right\}$   
660)  $\left\{\frac{1}{5}\right\}$       661)  $\left\{0, -\frac{5}{4}\right\}$       662)  $\left\{\frac{1}{2}\right\}$       663)  $\{-23\}$   
664)  $\{2, -2\}$       665)  $\left\{\frac{4}{3}\right\}$       666)  $\{-5\}$       667)  $\{4, -1\}$   
668)  $\{0, -1\}$       669)  $\left\{\frac{75}{4}\right\}$       670)  $\{2, -4\}$       671)  $\{-9\}$   
672)  $\left\{-\frac{17}{3}\right\}$       673)  $\{13\}$       674)  $\left\{\frac{4}{3}\right\}$       675)  $\{-21\}$   
676)  $\{4, -8\}$       677)  $\left\{-\frac{7}{4}\right\}$       678)  $\{-3\}$       679)  $\left\{1, -\frac{1}{2}\right\}$   
680)  $\left\{\frac{1}{2}, -\frac{3}{2}\right\}$       681)  $\left\{\frac{3}{4}\right\}$       682)  $\left\{\frac{19}{3}\right\}$       683)  $\{7\}$   
684)  $\{1, -12\}$       685)  $\{-4\}$       686)  $\{5, 1\}$       687)  $\{-11\}$   
688)  $\left\{\frac{5}{4}\right\}$       689)  $\left\{\frac{11}{3}\right\}$       690)  $\left\{\frac{7}{4}, -2\right\}$       691)  $\{9\}$   
692)  $\{6, 7\}$       693)  $\{0, 7\}$       694)  $\{4, 6\}$       695)  $\{7, 3\}$   
696)  $\{5\}$       697)  $\{2\}$       698)  $\{9, 3\}$       699)  $\{2\}$   
700)  $\{9, 10\}$       701)  $\{0, 8\}$       702)  $\{0, 5\}$       703)  $\{0, 1\}$   
704)  $\{8\}$       705)  $\{0, 10\}$       706)  $\{2\}$       707)  $\{4\}$   
708)  $\{7\}$       709)  $\{1\}$       710)  $\{6\}$       711)  $\{4\}$   
712)  $\{5, 4\}$       713)  $\{5, 6\}$       714)  $\{4\}$       715)  $\{9\}$   
716)  $\{10\}$       717)  $\{3, 1\}$       718)  $\{9, 3\}$       719)  $\{9\}$   
720) No solution.      721)  $\{7, 3\}$       722)  $\{7\}$       723)  $\{9\}$   
724)  $\{-1\}$       725) No solution.      726)  $\{6, 7\}$       727)  $\{7\}$   
728)  $\{8\}$       729)  $\{8\}$       730)  $\{4\}$       731) No solution.  
732) No solution.      733)  $\{1\}$       734)  $\{-1\}$       735)  $\{8, 4\}$

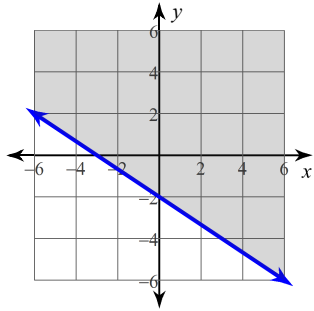
- 736)  $\{2\}$   
 740)  $\{0, -2\}$   
 744)  $\{3\}$   
 748)  $\{6\}$   
 752)  $\{7, 3\}$   
 756)  $\{3\}$   
 760)  $\{1\}$

- 737)  $\{5\}$   
 741)  $\{3, 1\}$   
 745) No solution.  
 749)  $\{3\}$   
 753)  $\{-1\}$   
 757)  $\{-4\}$   
 761) No solution.

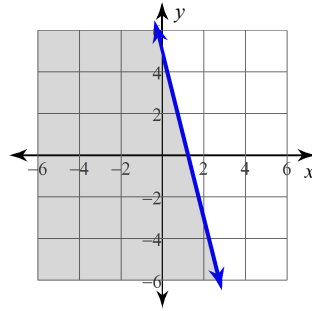
- 738)  $\{4\}$   
 742)  $\{-7, -3\}$   
 746) No solution.  
 750)  $\{-8\}$   
 754)  $\{3\}$   
 758)  $\{-1\}$   
 762)  $\left\{-3, -\frac{9}{4}\right\}$

- 739) No solution.  
 743) No solution.  
 747)  $\{5\}$   
 751)  $\{4\}$   
 755)  $\{-5, -1\}$   
 759)  $\{3\}$   
 763)  $\{2, 1\}$

- 764)  $\{2\}$   
 768)  $\{1\}$   
 771)

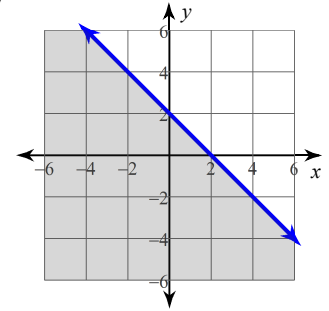


- 765)  $\{0\}$   
 769)  $\{-2\}$   
 772)

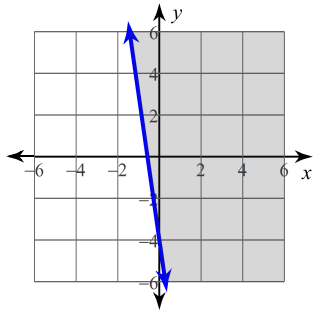


- 766)  $\{4\}$   
 770)  $\{1\}$

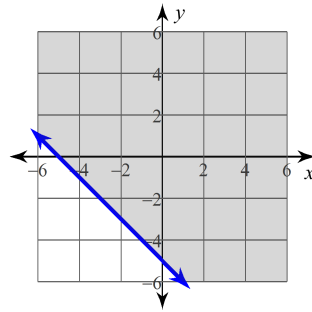
773)



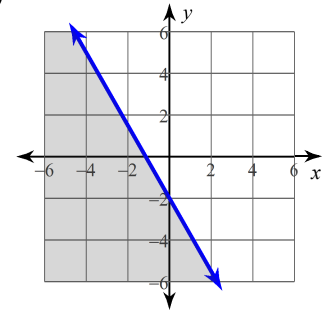
774)



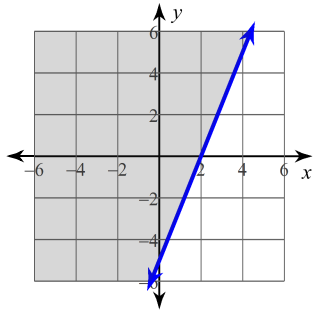
775)



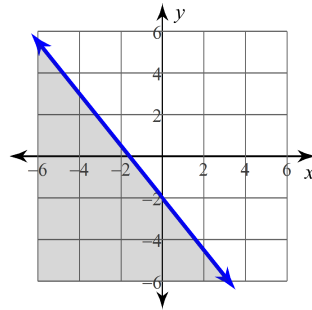
776)



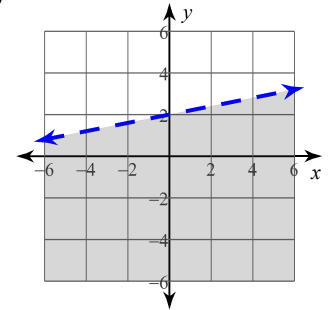
777)



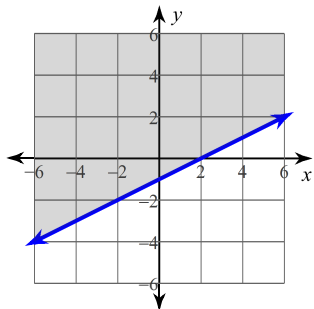
778)



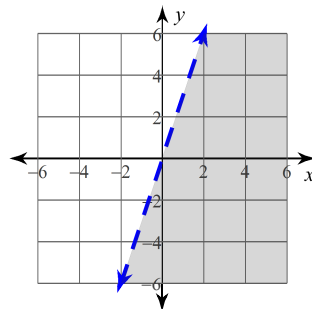
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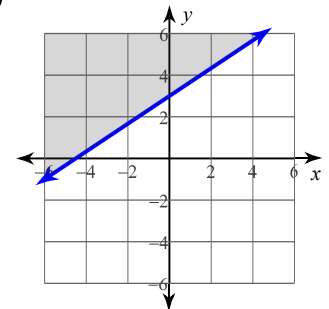
780)



781)

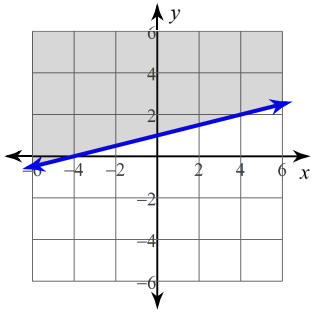


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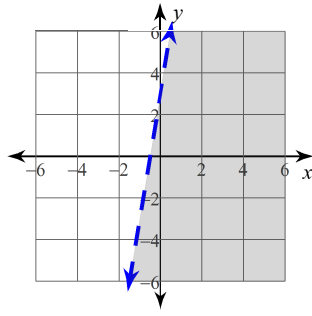




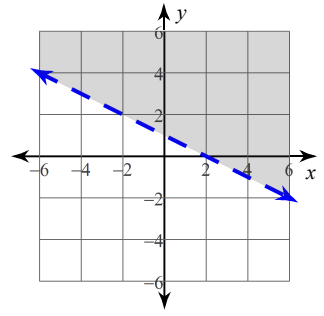
783)



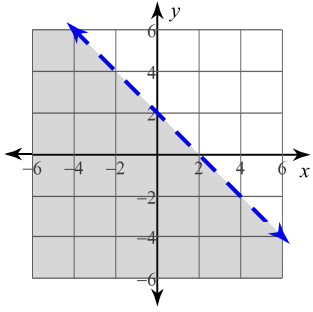
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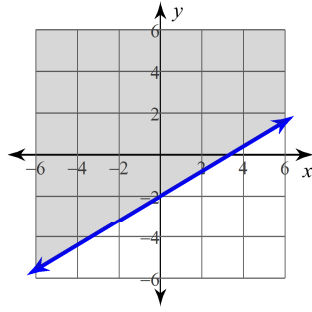
785)



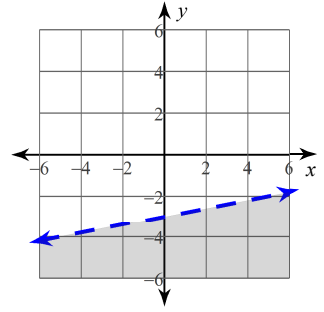
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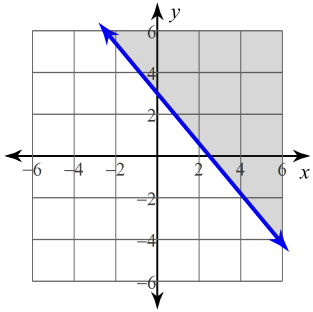
787)



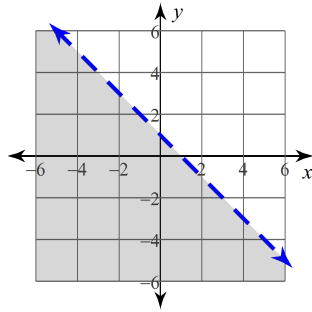
788)



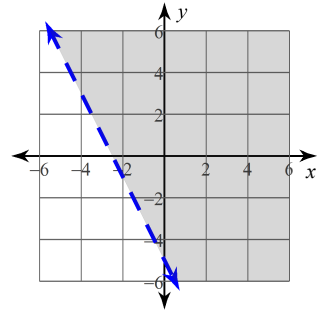
789)



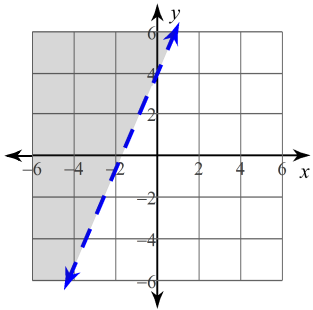
790)



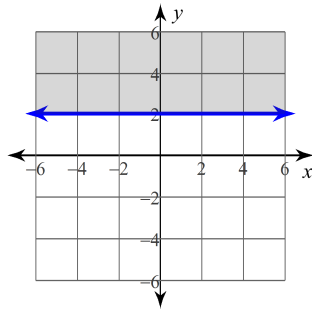
791)



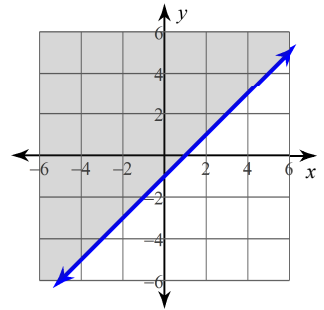
792)



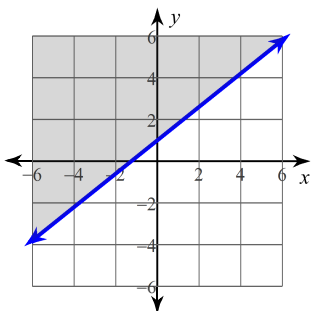
793)



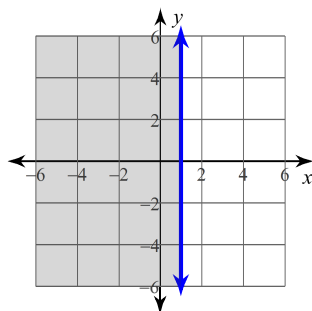
794)



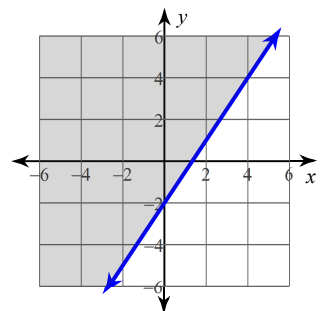
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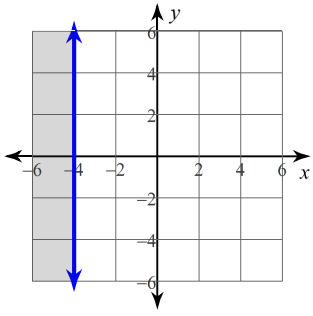
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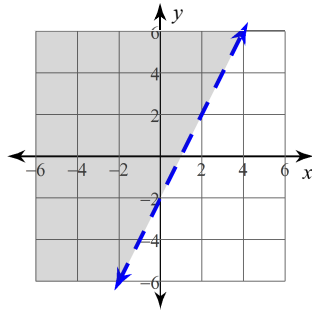
797)



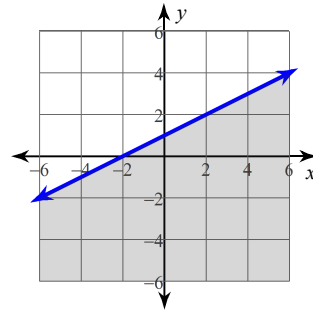
798)



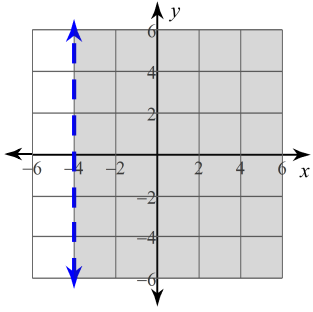
799)



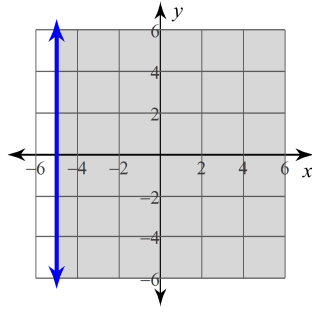
800)



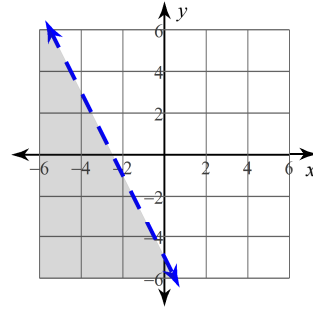
801)



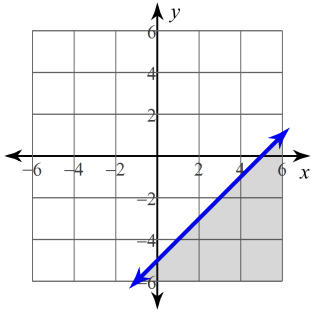
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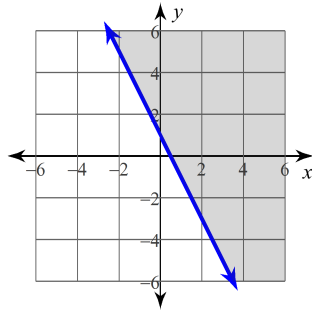
803)



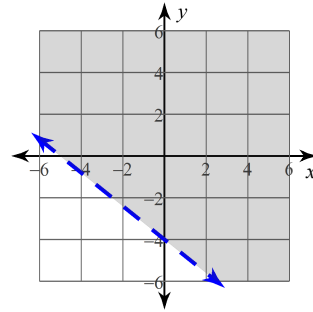
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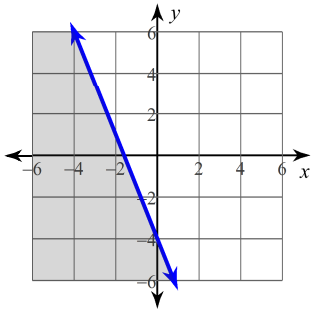
805)



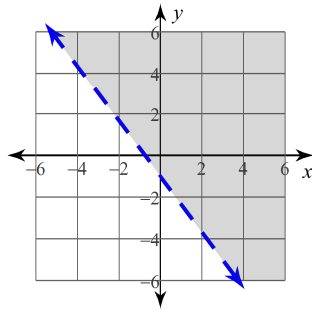
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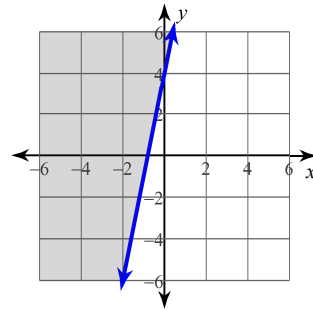
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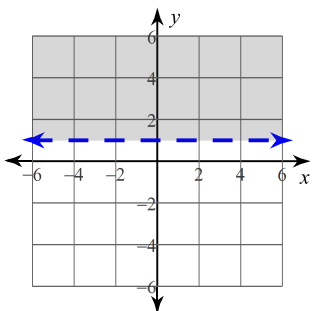
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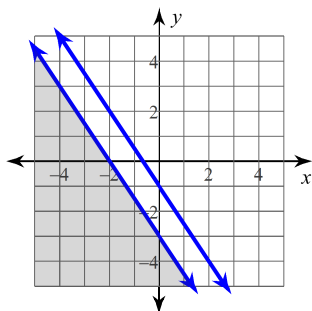
809)



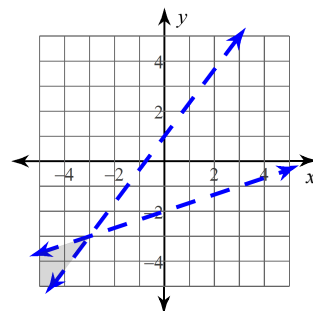
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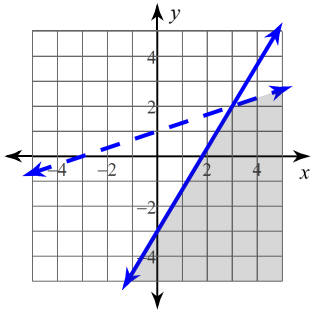
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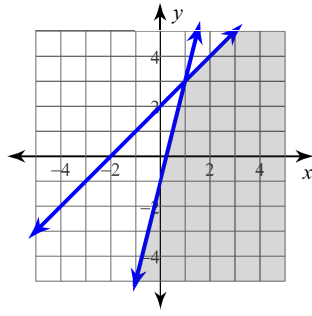
812)



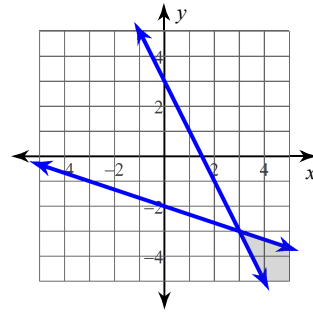
813)



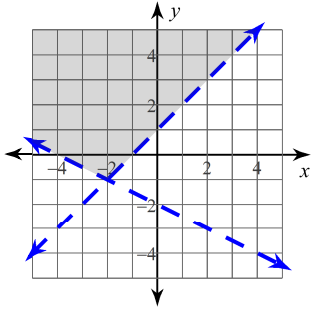
814)



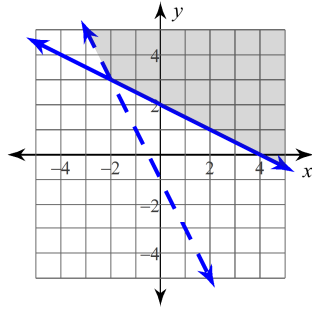
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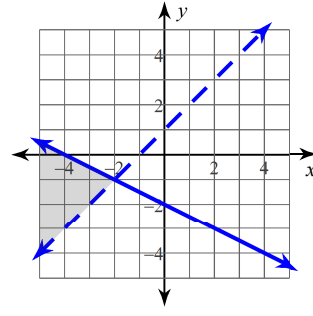
816)



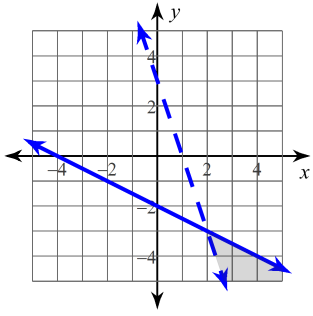
817)



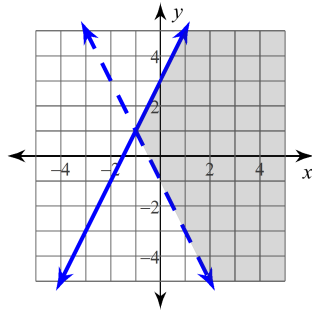
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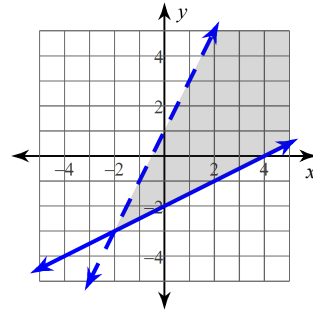
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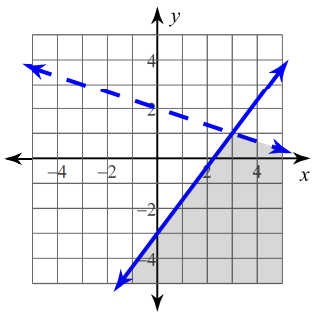
820)



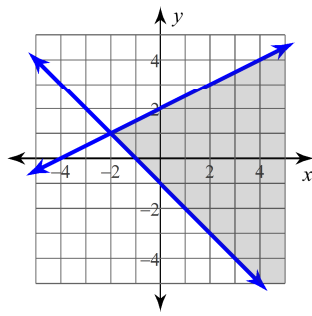
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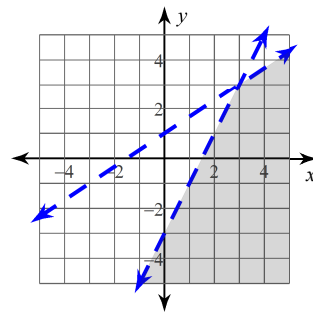
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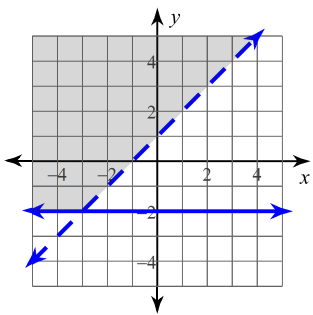
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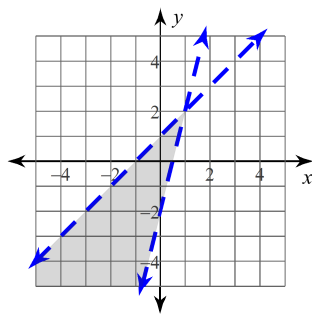
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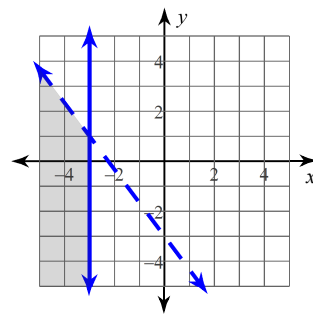
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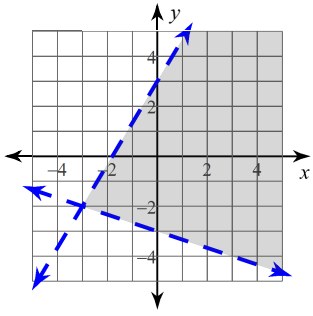
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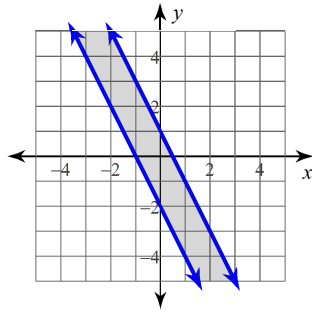
827)



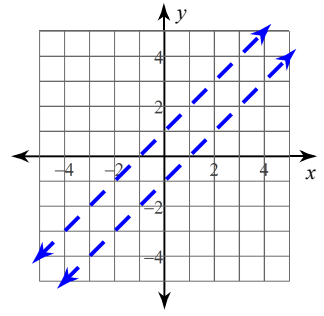
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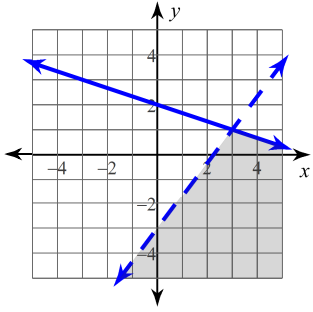
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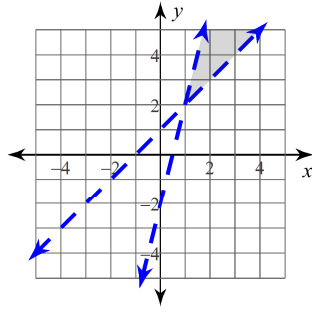
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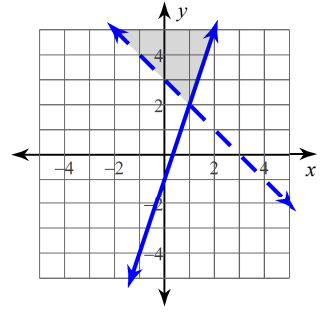
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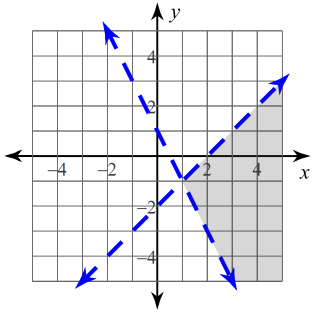
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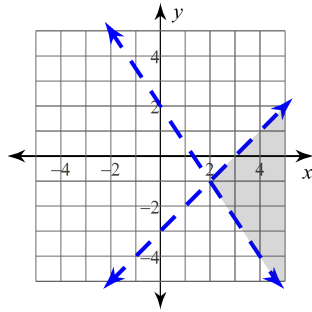
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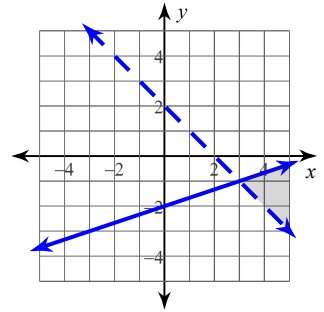
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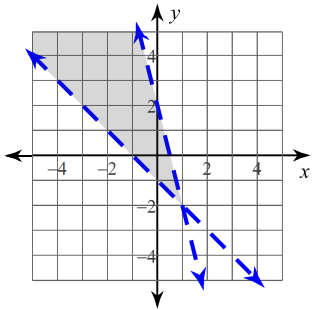
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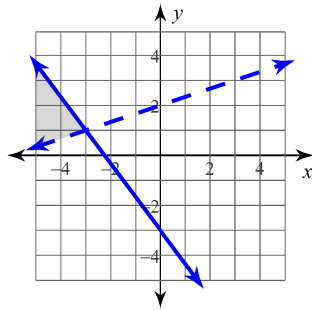
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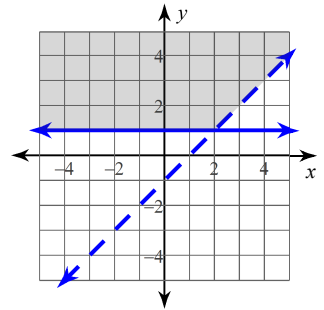
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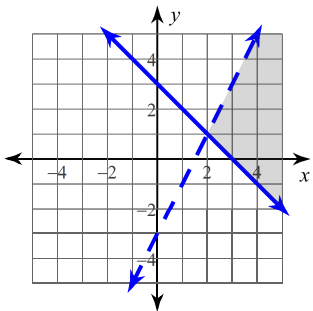
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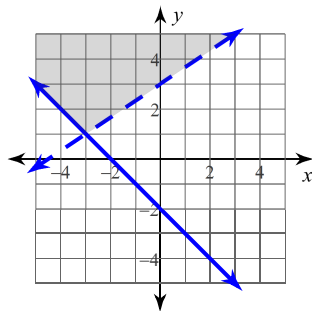
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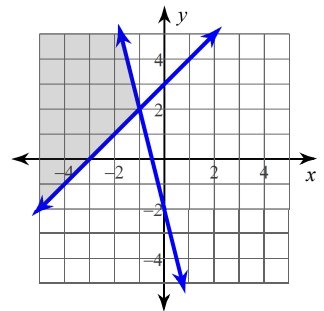
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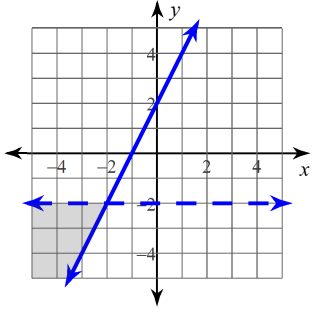
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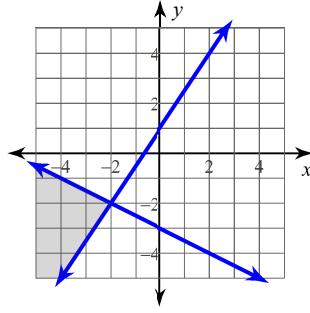
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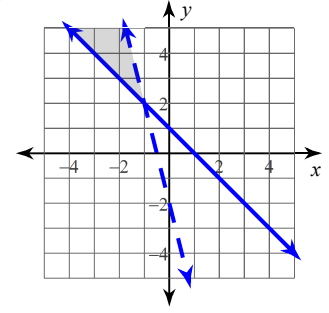
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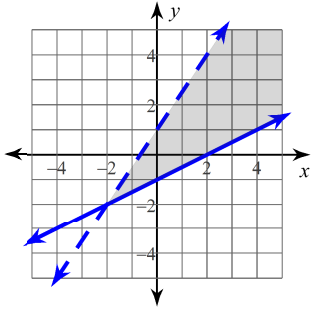
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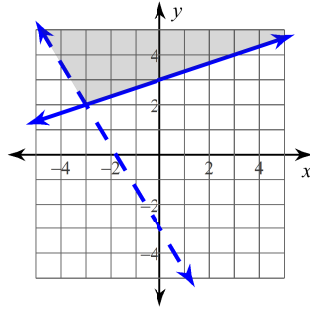
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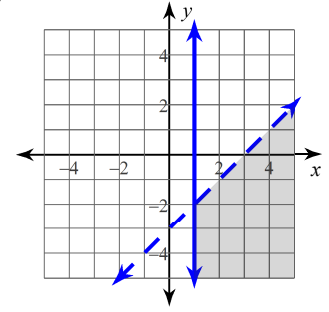
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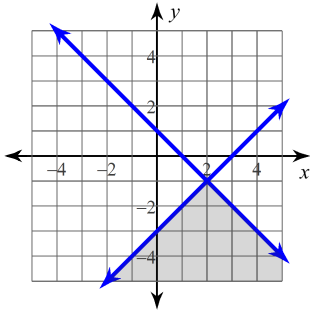
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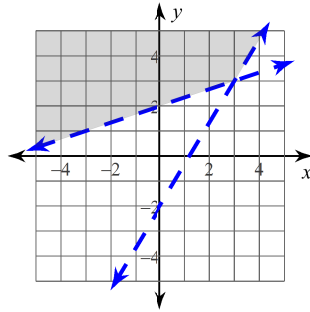
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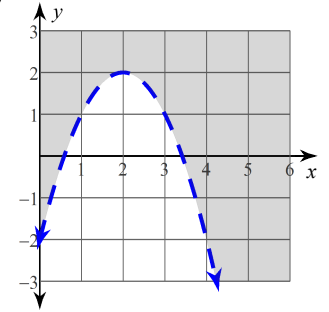
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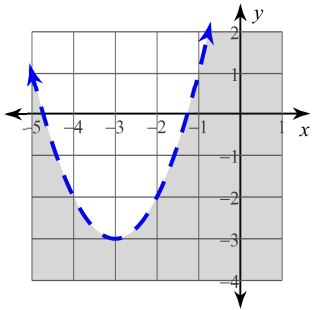
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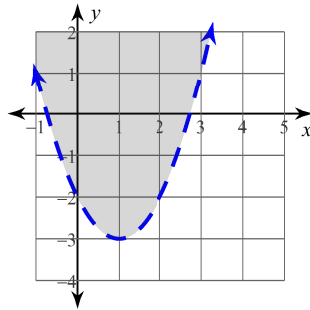
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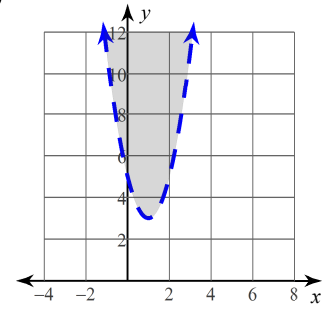
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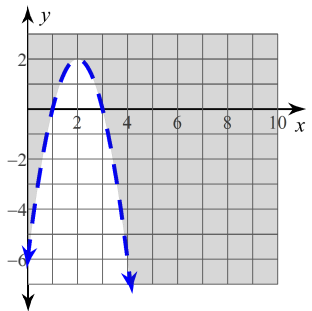
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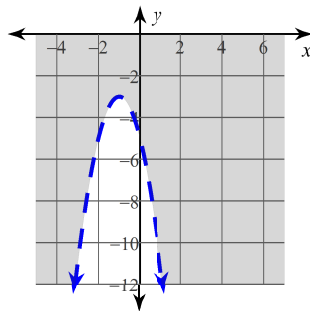
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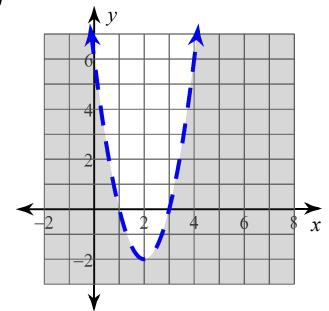
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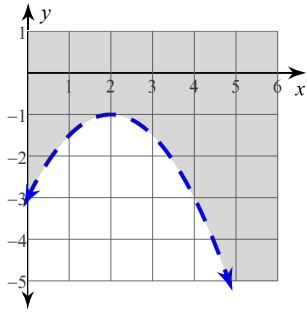
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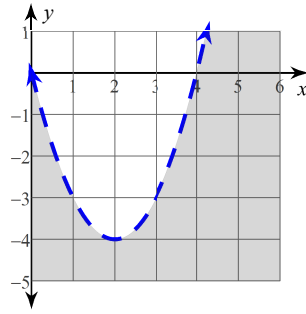
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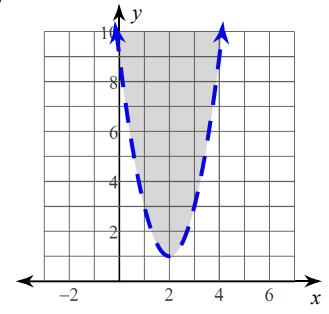
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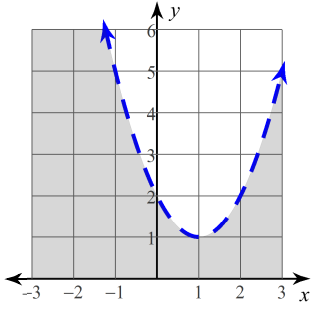
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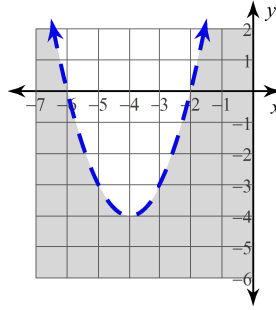
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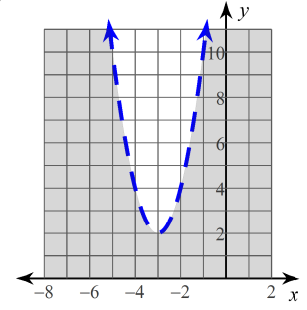
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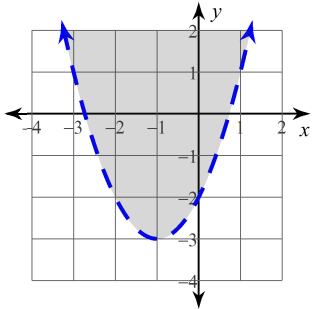
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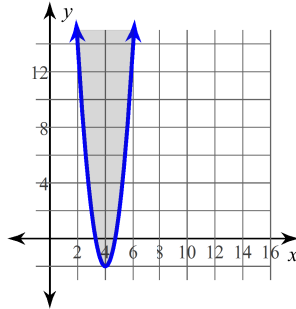
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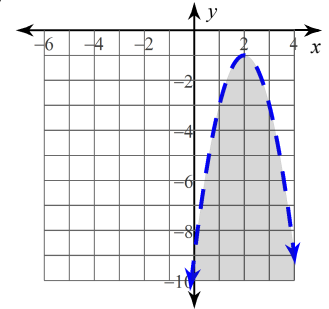
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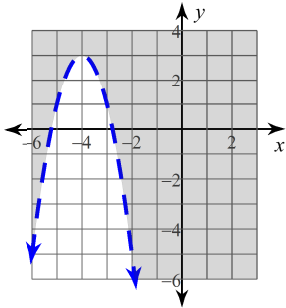
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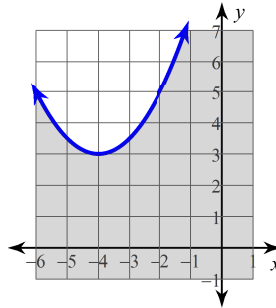
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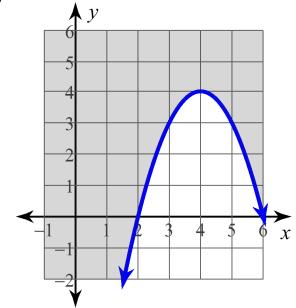
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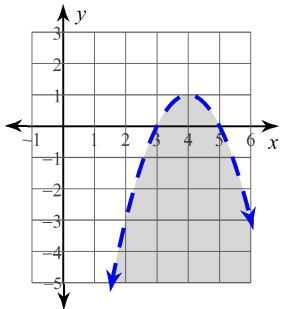
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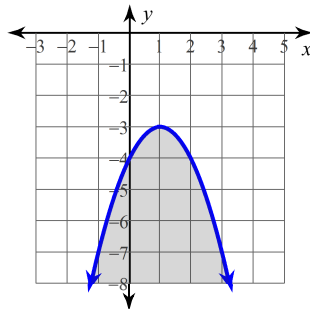
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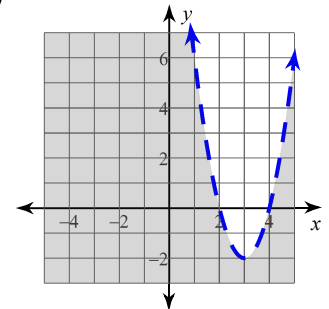
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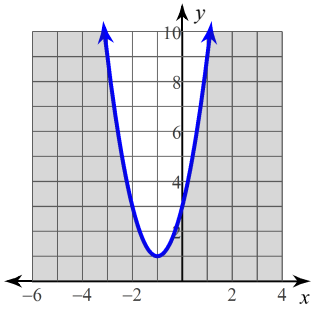
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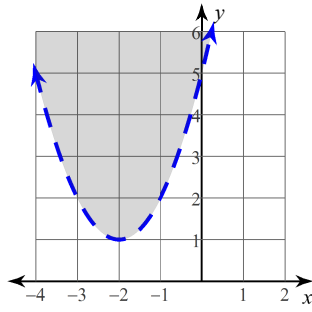
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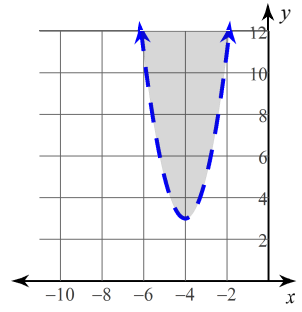
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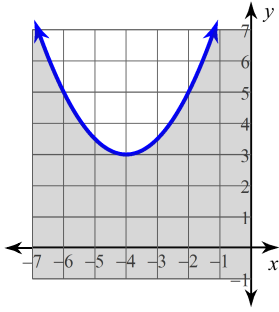
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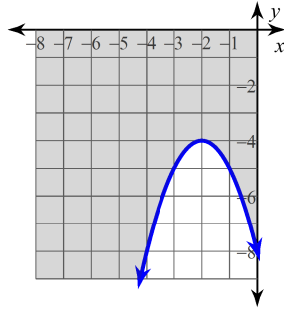
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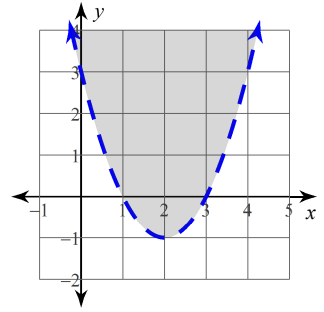
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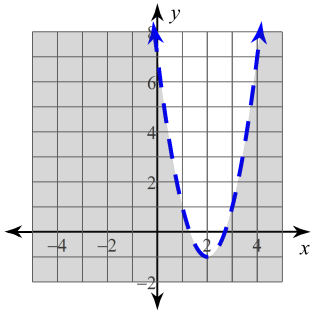
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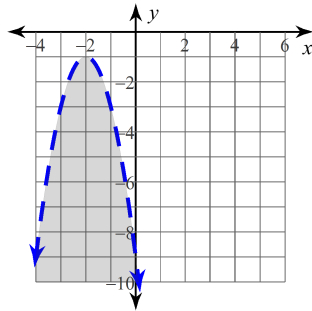
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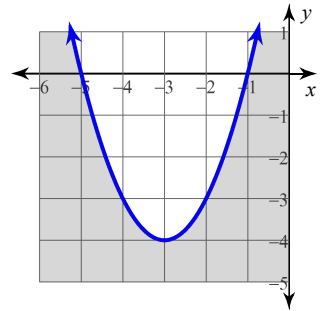
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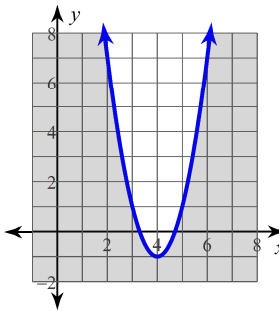
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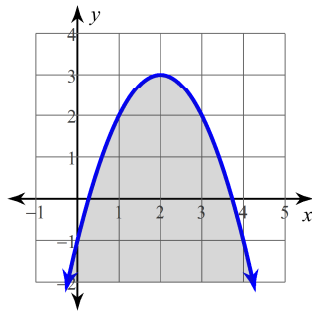
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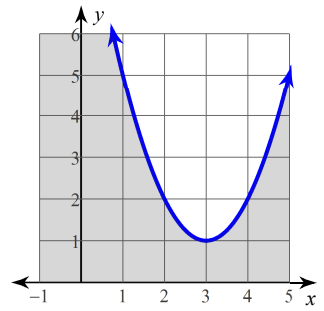
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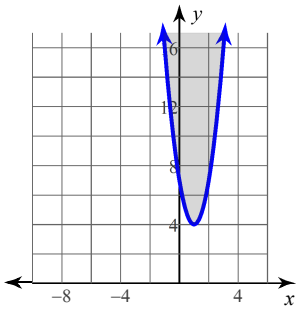
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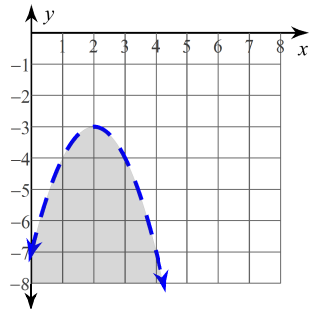
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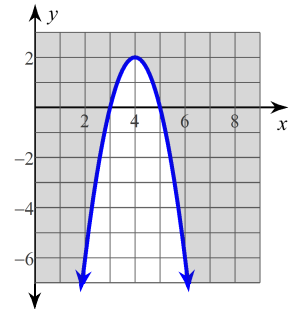
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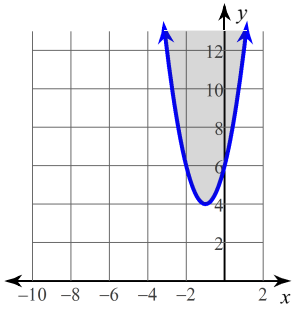
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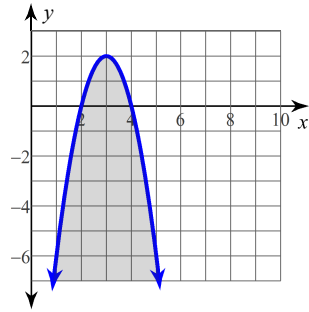
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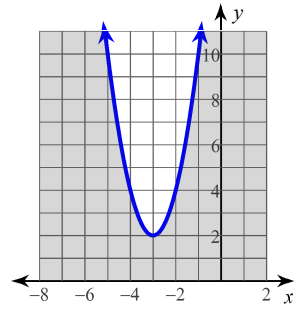
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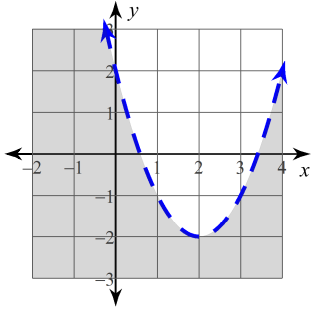
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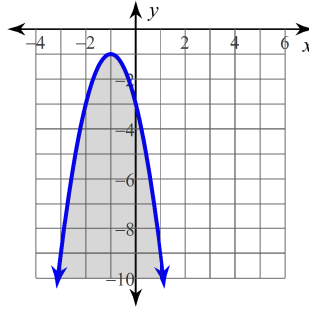
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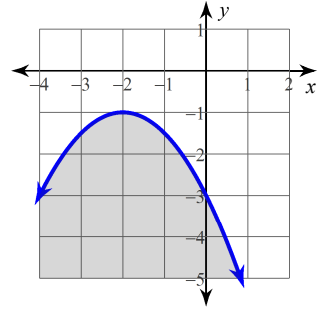
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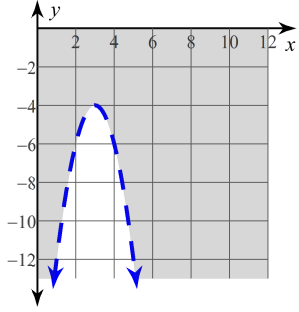
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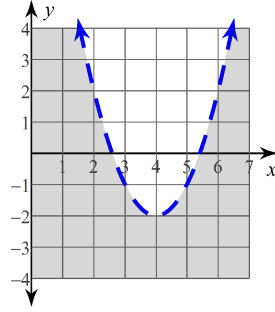
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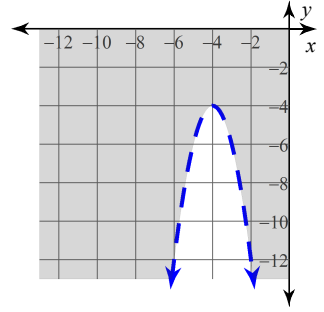
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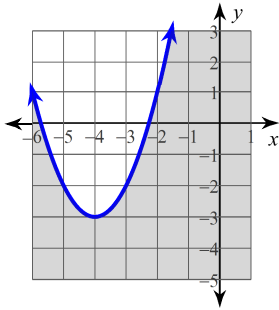
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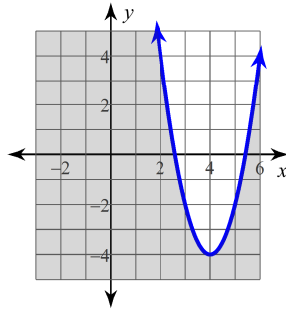
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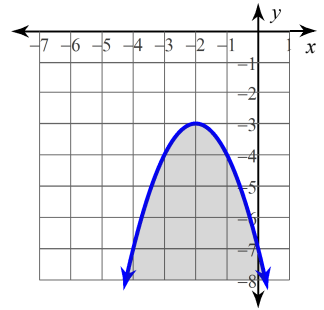
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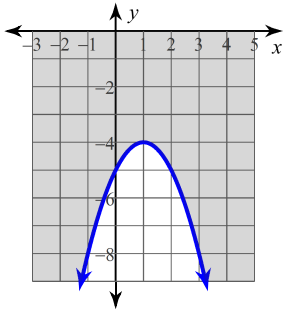
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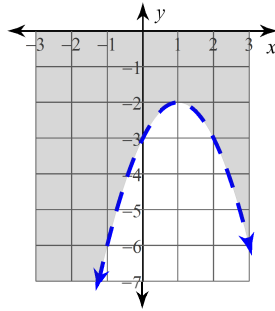
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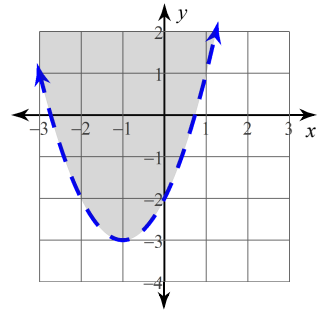
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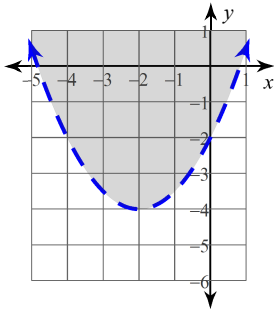


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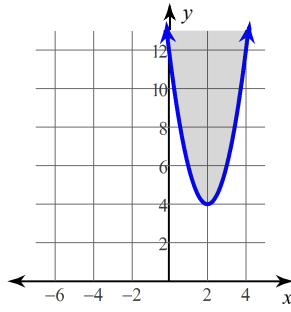




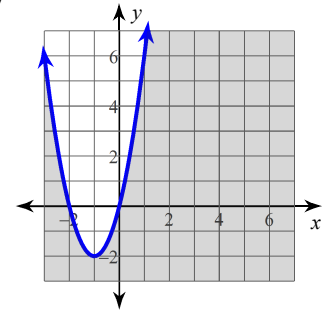
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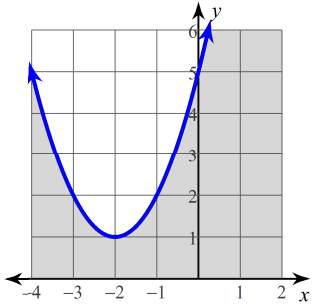
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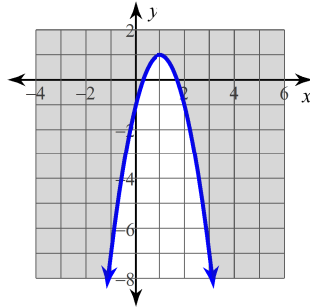
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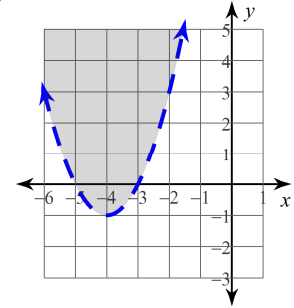
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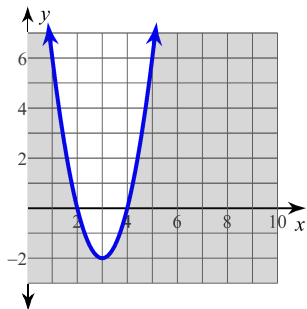
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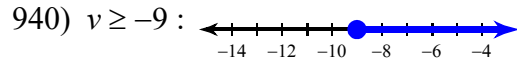
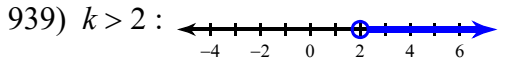
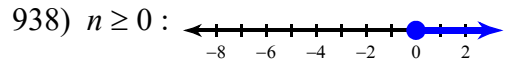
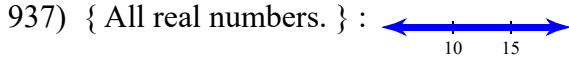
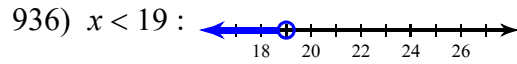
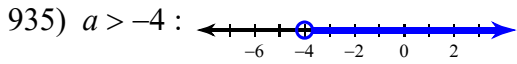
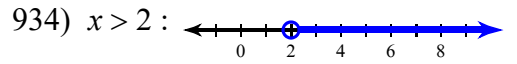
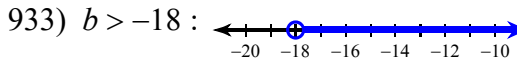
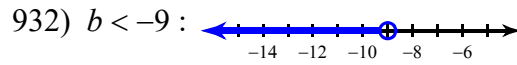
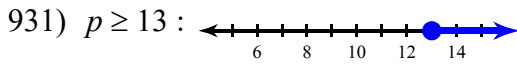
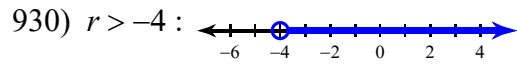
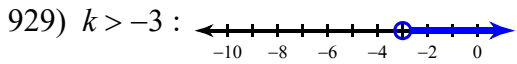
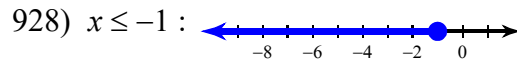
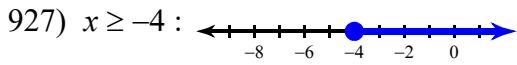
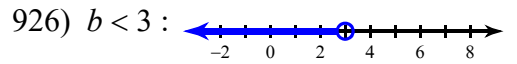
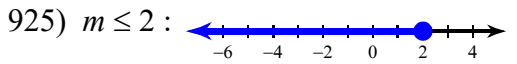
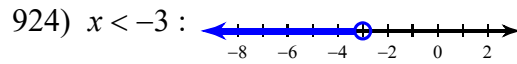
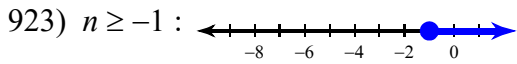
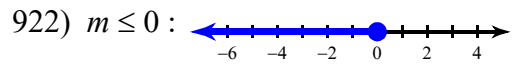
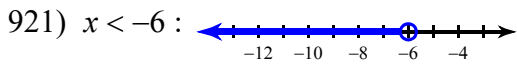
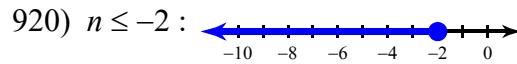
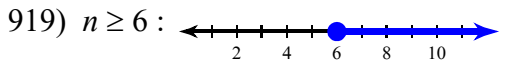
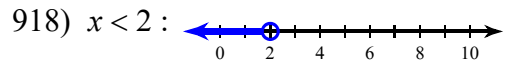
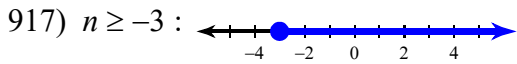
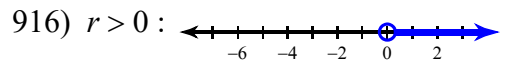
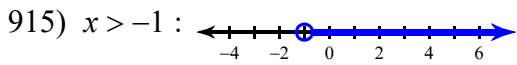
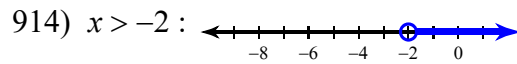
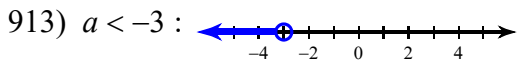
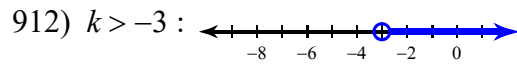
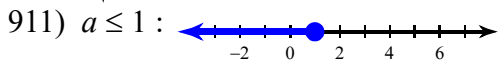
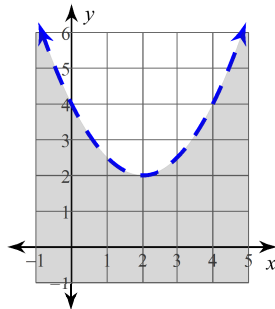
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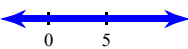


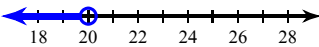
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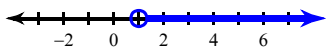


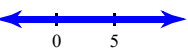
910)

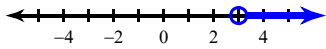


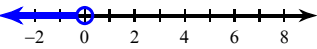
941) { All real numbers. } : 

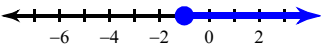
942)  $x < 20$  : 

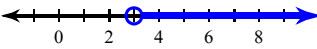
943)  $x > 1$  : 

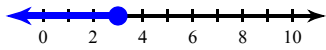
944) { All real numbers. } : 

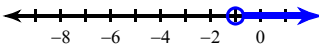
945)  $x > 3$  : 


946)  $r < 0$  : 

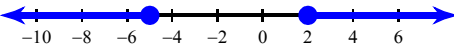
947)  $x \geq -1$  : 

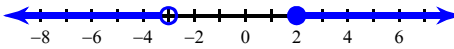
948)  $x > 3$  : 

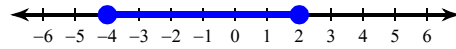
949)  $x \leq 3$  : 

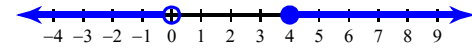
950)  $a > -1$  : 

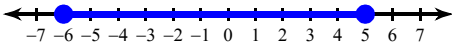
951)  $1 \leq p \leq 4$  : 

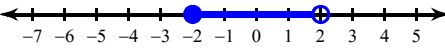
952)  $r \leq -5$  or  $r \geq 2$  : 

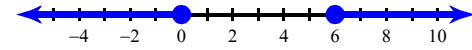
953)  $v < -3$  or  $v \geq 2$  : 

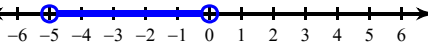
954)  $-4 \leq m \leq 2$  : 

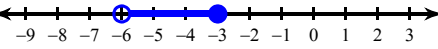
955)  $a \geq 4$  or  $a < 0$  : 

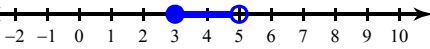
956)  $-6 \leq x \leq 5$  : 

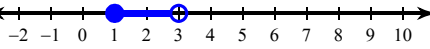
957)  $-2 \leq r < 2$  : 

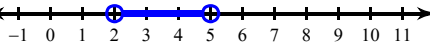
958)  $n \leq 0$  or  $n \geq 6$  : 

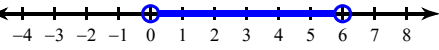
959)  $-5 < v < 0$  : 

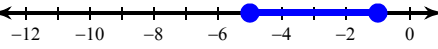
960)  $-6 < x \leq -3$  : 

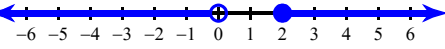
961)  $3 \leq r < 5$  : 

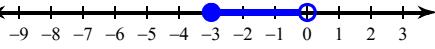
962)  $1 \leq n < 3$  : 

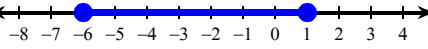
963)  $2 < x < 5$  : 

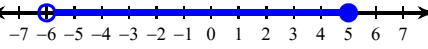
964)  $0 < p < 6$  : 

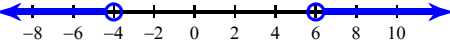
965)  $-5 \leq n \leq -1$  : 

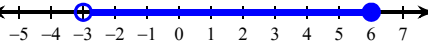
966)  $n < 0$  or  $n \geq 2$  : 

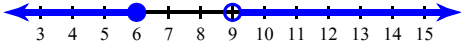
967)  $-3 \leq n < 0$  : 

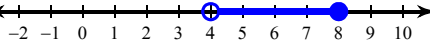
968)  $-6 \leq n \leq 1$  : 

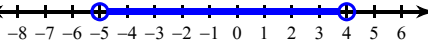
969)  $-6 < n \leq 5$  : 

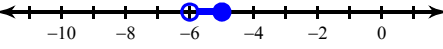
970)  $x < -4$  or  $x > 6$  : 

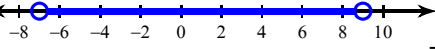
971)  $-3 < b \leq 6$  : 

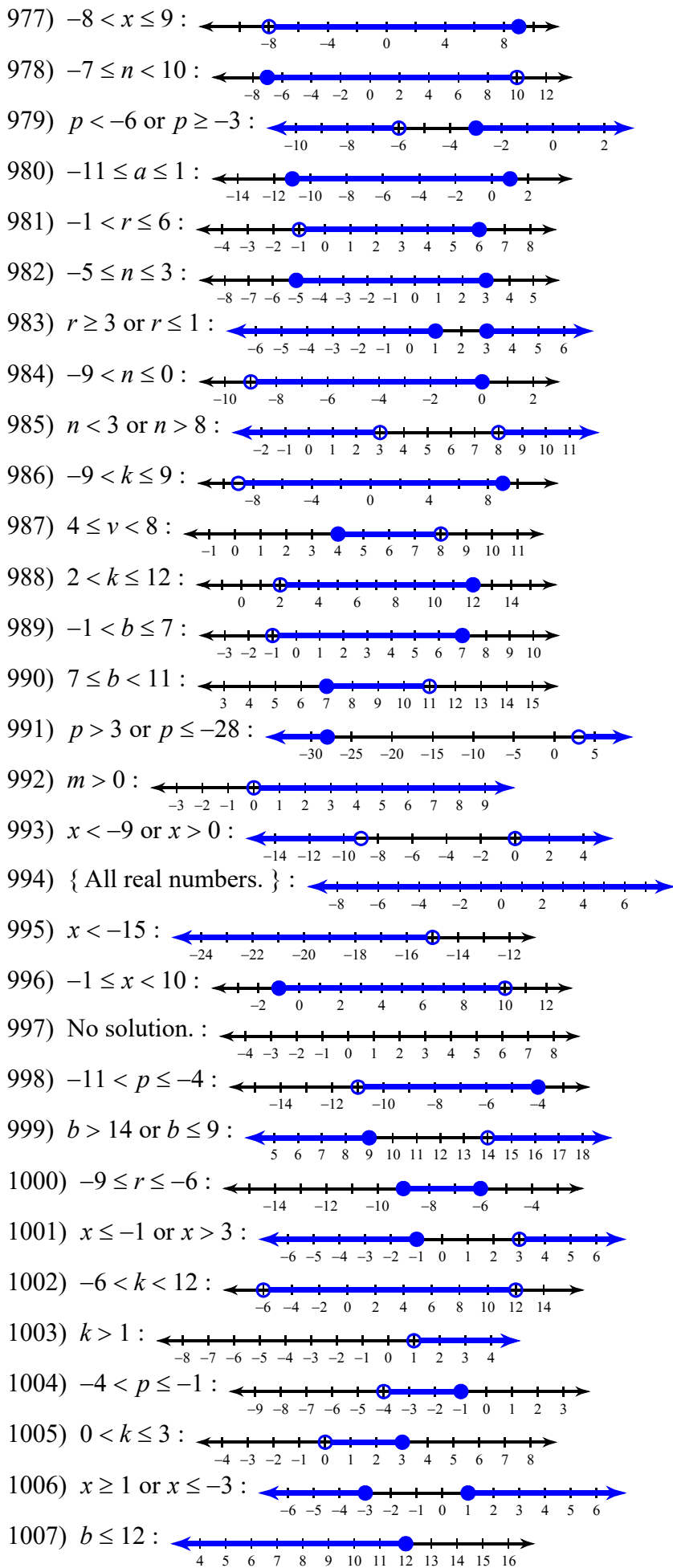
972)  $m \leq 6$  or  $m > 9$  : 

973)  $4 < n \leq 8$  : 

974)  $-5 < v < 4$  : 

975)  $-6 < p \leq -5$  : 

976)  $-7 < a < 9$  : 



1008)  $-8 \leq p \leq 3$  :

1009)  $-24 \leq p \leq -5$  :

1010)  $k > 14$  or  $k < -11$  :

1011)  $[-8, -2]$

1012)  $(-\infty, -6] \cup [3, \infty)$

1013)  $[-6, -2]$

1014)  $\left(\frac{1}{2}, \frac{2}{3}\right)$

1015)  $\left[\frac{4}{3}, \frac{3}{2}\right]$

1016)  $(-\infty, -8) \cup \left(\frac{5}{2}, \infty\right)$

1017)  $(-6, 7)$

1018)  $\{-4\}$

1019)  $(-6, 5)$

1020)  $(1, 2)$

1021)  $(-\infty, 5] \cup [7, \infty)$

1022)  $\left(-\infty, \frac{3}{2}\right] \cup [2, \infty)$

1023)  $(-7, 2)$

1024)  $\left[-2, \frac{5}{2}\right]$

1025)  $(-3, -2)$

1026)  $(-\infty, -1] \cup \left[\frac{5}{2}, \infty\right)$

1027)  $\emptyset$

1028)  $[-7, -2]$

1029)  $(-\infty, -3) \cup (3, \infty)$

1030)  $\left(-5, \frac{1}{3}\right)$