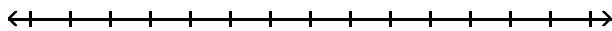


Name \_\_\_\_\_

**State the solution set of the inequality in interval notation and sketch its graph.**

1)  $7x + 2 > 6x - 4$

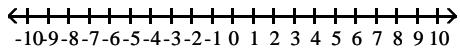
1) \_\_\_\_\_



**Express the interval in set-builder notation and graph the interval on a number line.**

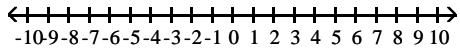
2)  $(-1, 1]$

2) \_\_\_\_\_



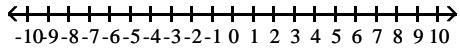
3)  $(-5, 4]$

3) \_\_\_\_\_



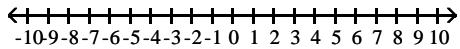
4)  $[-6, 9)$

4) \_\_\_\_\_

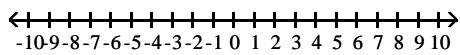


5)  $[-2, 5)$

5) \_\_\_\_\_

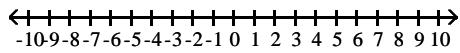


$$6) \left(-\infty, \frac{9}{2}\right)$$



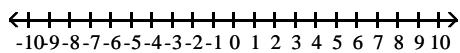
6) \_\_\_\_\_

$$7) \left(-\infty, \frac{6}{5}\right)$$



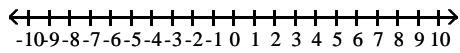
7) \_\_\_\_\_

$$8) [-1, 7]$$



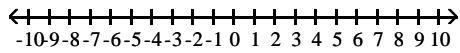
8) \_\_\_\_\_

$$9) [-2, 4]$$



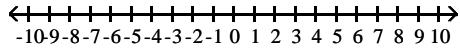
9) \_\_\_\_\_

$$10) (-6, \infty)$$



10) \_\_\_\_\_

$$11) (-4, \infty)$$

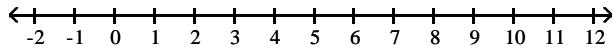


11) \_\_\_\_\_

**Solve the compound inequality. Other than  $\emptyset$ , use interval notation to express the solution set and graph the solution set on a number line.**

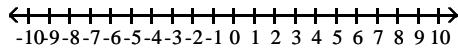
12)  $15 < 5x \leq 30$

12) \_\_\_\_\_



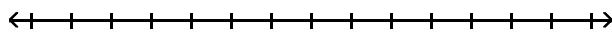
13)  $-2 < x - 1 \leq 4$

13) \_\_\_\_\_



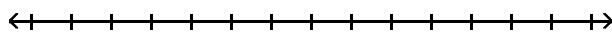
14)  $17 \leq 5x - 3 \leq 27$

14) \_\_\_\_\_



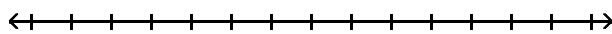
15)  $-13 \leq -2x - 1 < -9$

15) \_\_\_\_\_



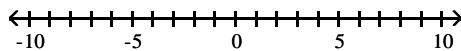
16)  $-16 \leq -2x - 4 \leq -8$

16) \_\_\_\_\_



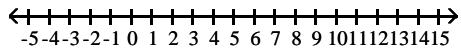
17)  $-4 \leq -4x - 12 < 4$

17) \_\_\_\_\_



$$18) 1 \leq \frac{5}{2}x - 4 < 11$$

$$18) \underline{\hspace{2cm}}$$



Use graphs to find the set.

$$19) (-9, 0) \cap [-4, 10]$$

$$19) \underline{\hspace{2cm}}$$

$$20) (-8, 0) \cap [-4, 7]$$

$$20) \underline{\hspace{2cm}}$$

$$21) (-9, 0) \cup [-4, 6]$$

$$21) \underline{\hspace{2cm}}$$

$$22) (-10, 0) \cup [-4, 2]$$

$$22) \underline{\hspace{2cm}}$$

$$23) (-\infty, 2) \cap [-6, 14)$$

$$23) \underline{\hspace{2cm}}$$

$$24) (-\infty, 2) \cap [-7, 14)$$

$$24) \underline{\hspace{2cm}}$$

$$25) (-\infty, 9) \cup [-2, 18)$$

$$25) \underline{\hspace{2cm}}$$

$$26) (-\infty, 9) \cup [-6, 12)$$

$$26) \underline{\hspace{2cm}}$$

$$27) (9, \infty) \cap [19, \infty)$$

$$27) \underline{\hspace{2cm}}$$

$$28) (7, \infty) \cap [17, \infty)$$

$$28) \underline{\hspace{2cm}}$$

$$29) (1, \infty) \cup [18, \infty)$$

$$29) \underline{\hspace{2cm}}$$

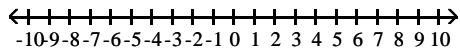
$$30) (9, \infty) \cup [16, \infty)$$

$$30) \underline{\hspace{2cm}}$$

**Express the interval in set-builder notation and graph the interval on a number line.**

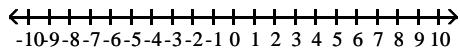
$$31) [2, \infty)$$

$$31) \underline{\hspace{2cm}}$$



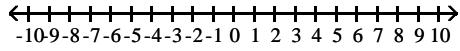
$$32) [-8, \infty)$$

$$32) \underline{\hspace{2cm}}$$



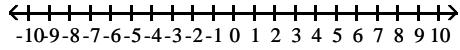
$$33) (-\infty, 2.5]$$

$$33) \underline{\hspace{2cm}}$$



$$34) (-\infty, 2.5]$$

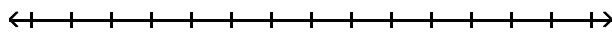
$$34) \underline{\hspace{2cm}}$$



**State the solution set of the inequality in interval notation and sketch its graph.**

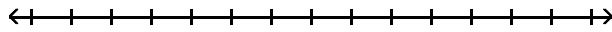
35)  $3x + 4 > 2x + 2$

35) \_\_\_\_\_



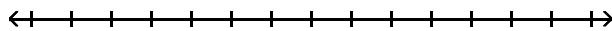
36)  $8x + 5 \geq 7x - 2$

36) \_\_\_\_\_



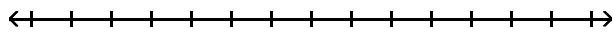
37)  $4x - 7 \geq 3x - 9$

37) \_\_\_\_\_



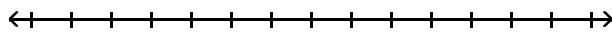
38)  $12x + 16 > 4(2x + 1)$

38) \_\_\_\_\_



39)  $14x - 8 > 2(6x + 1)$

39) \_\_\_\_\_

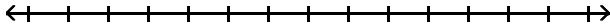


40)  $-42x - 42 \leq -6(6x + 8)$

40) \_\_\_\_\_



$$41) -24x - 12 \leq -6(3x + 6)$$



$$41) \underline{\hspace{2cm}}$$

$$42) 3x - 2 \geq 2x - 9$$



$$42) \underline{\hspace{2cm}}$$

**Solve.**

- 43) Kevin invested part of his \$10,000 bonus in a certificate of deposit that paid 6% annual interest, and the remainder in a mutual fund that paid 11% annual interest. If his total interest for that year was \$800, how much did Kevin invest in the mutual fund?

$$43) \underline{\hspace{2cm}}$$

- 44) Kevin invested part of his \$10,000 bonus in a certificate of deposit that paid 6% annual interest, and the remainder in a mutual fund that paid 11% annual interest. If his total interest for that year was \$700, how much did Kevin invest in the mutual fund?

$$44) \underline{\hspace{2cm}}$$

- 45) Melissa invested a sum of money at 3% annual interest. She invested three times that sum at 5% annual interest. If her total yearly interest from both investments was \$3600, how much was invested at 3%?

$$45) \underline{\hspace{2cm}}$$

- 46) A bank loaned out \$57,000, part of it at the rate of 11% per year and the rest at a rate of 8% per year. If the interest received was \$5310, how much was loaned at 11%?

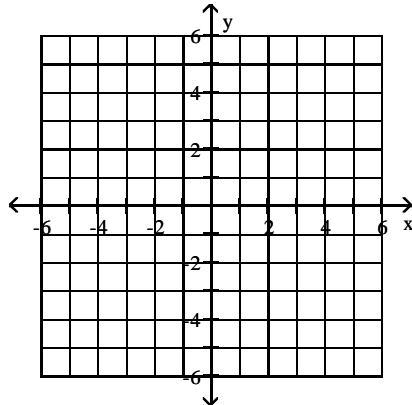
$$46) \underline{\hspace{2cm}}$$

- 47) A bank loaned out \$69,000, part of it at the rate of 15% per year and the rest at a rate of 4% per year. If the interest received was \$5730, how much was loaned at 15%?

$$47) \underline{\hspace{2cm}}$$

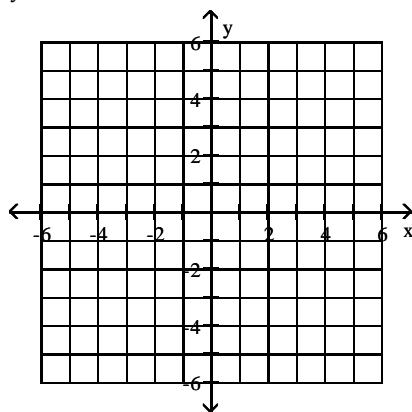
**Graph the equation.**

48)  $y = x - 1$



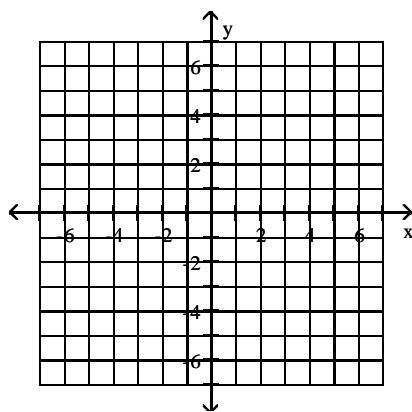
48) \_\_\_\_\_

49)  $y = x - 3$



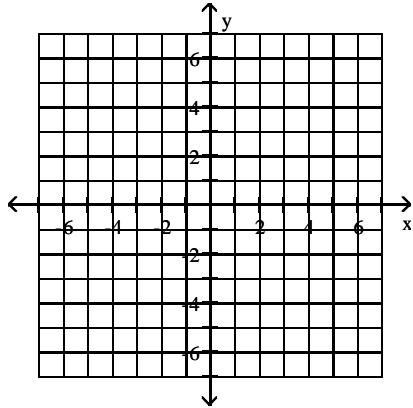
49) \_\_\_\_\_

50)  $y = 3x - 2$



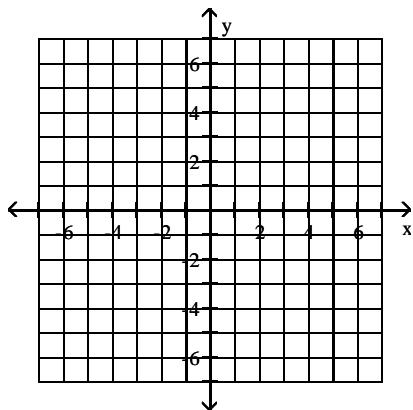
50) \_\_\_\_\_

51)  $y = 3x + 2$



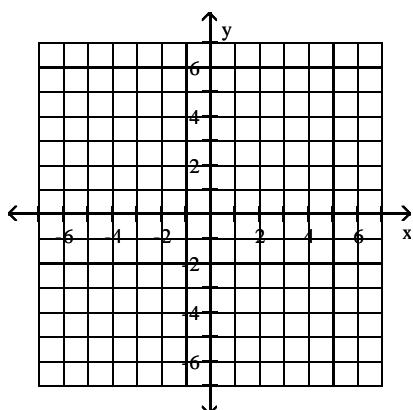
51) \_\_\_\_\_

52)  $y = -\frac{1}{5}x + 4$



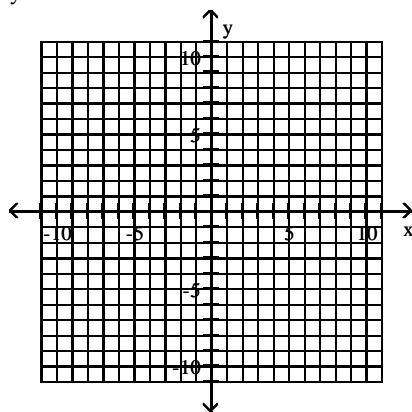
52) \_\_\_\_\_

53)  $y = -\frac{1}{2}x - 4$



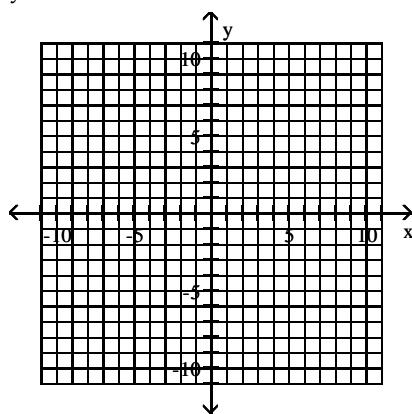
53) \_\_\_\_\_

54)  $y = x^2 + 5$



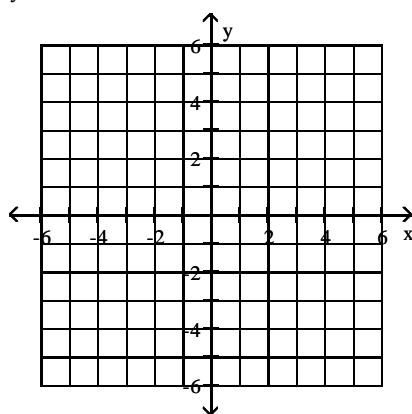
54) \_\_\_\_\_

55)  $y = x^2 - 5$



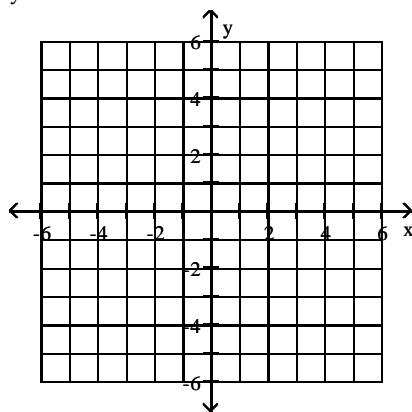
55) \_\_\_\_\_

56)  $y = x^3 + 2$



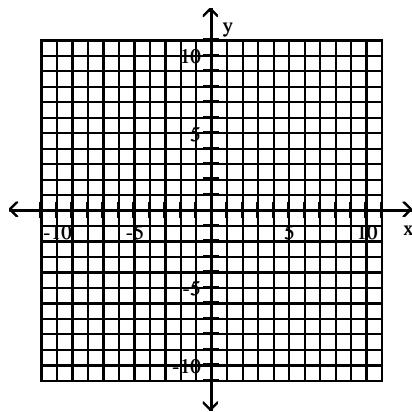
56) \_\_\_\_\_

57)  $y = x^3 + 5$



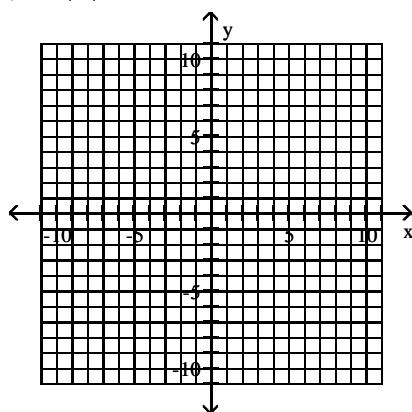
57) \_\_\_\_\_

58)  $y = -|x| + 2$



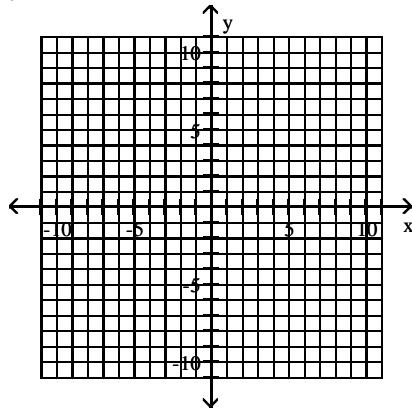
58) \_\_\_\_\_

59)  $y = -|x| + 1$



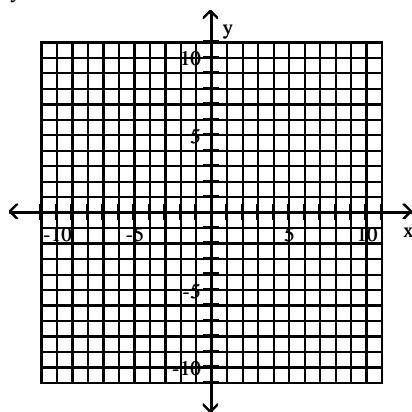
59) \_\_\_\_\_

60)  $y = -3|x|$



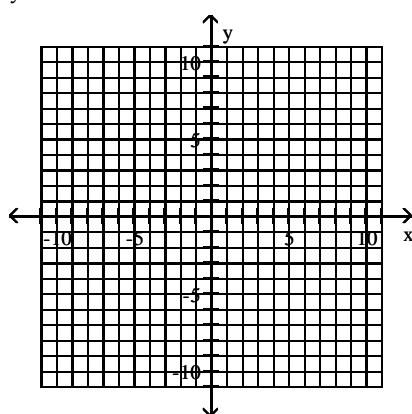
60) \_\_\_\_\_

61)  $y = -5|x|$



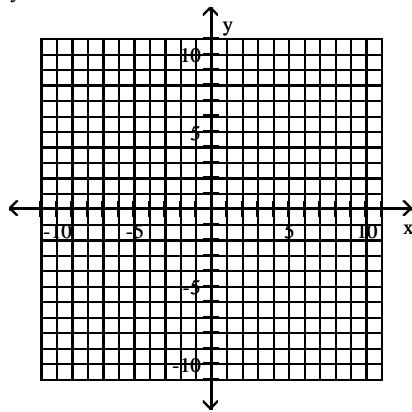
61) \_\_\_\_\_

62)  $y = 3$



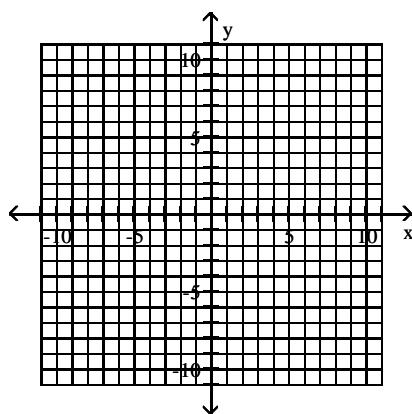
62) \_\_\_\_\_

63)  $y = 2$



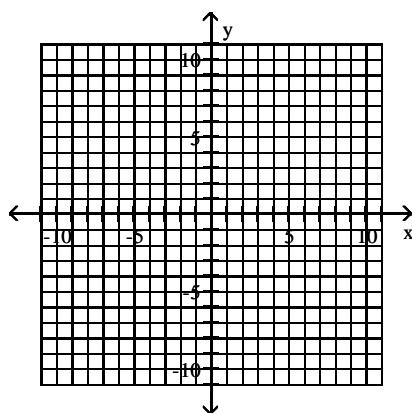
63) \_\_\_\_\_

64)  $y = \frac{1}{x}$



64) \_\_\_\_\_

65)  $y = \frac{1}{x}$

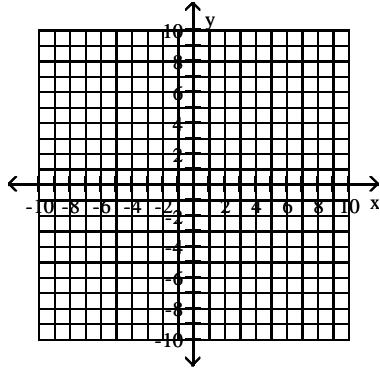


65) \_\_\_\_\_

Begin by graphing the standard absolute value function  $f(x) = |x|$ . Then use transformations of this graph to graph the given function.

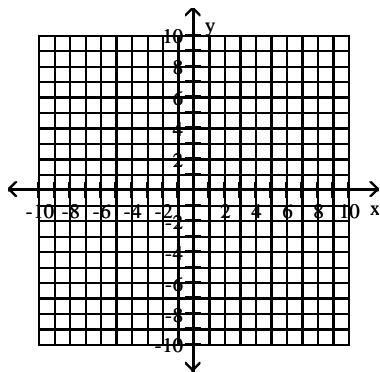
66)  $g(x) = |x| + 2$

66) \_\_\_\_\_



67)  $g(x) = |x| + 3$

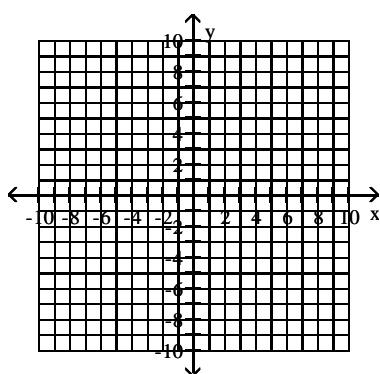
67) \_\_\_\_\_



Begin by graphing the standard function  $f(x) = x^3$ . Then use transformations of this graph to graph the given function.

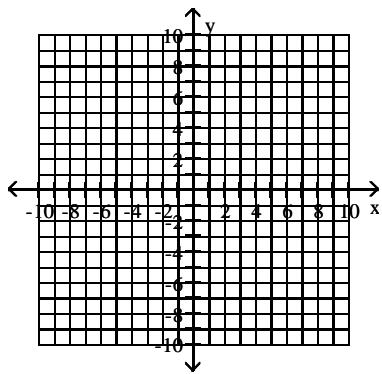
68)  $g(x) = x^3 + 3$

68) \_\_\_\_\_



69)  $g(x) = x^3 - 3$

69) \_\_\_\_\_



Determine the domain and range of the relation. State whether the relation is a function or not a function.

70)

input	2	6	2	2
output	14	1	5	7

70) \_\_\_\_\_

71)

input	2	5	2	8
output	7	3	5	4

71) \_\_\_\_\_

72)

input	-2	-1	1	2
output	2	5	2	5

72) \_\_\_\_\_

73)

input	-9	-3	3	9
output	6	12	6	12

73) \_\_\_\_\_

**Solve the problem.**

74) Some values for a relation are given in the table. Is the relation a function?

74) \_\_\_\_\_

x	y
1	5
2	9
3	2
3	4
4	7

75) Some values for a relation are given in the table. Is the relation a function?

75) \_\_\_\_\_

x	y
5	3
6	4
7	6
8	6
9	15

**Given functions  $f$  and  $g$ , perform the indicated operations.**

76)  $f(x) = 3x - 7$ ,  $g(x) = 7x + 5$

76) \_\_\_\_\_

Find  $fg$ .

77)  $f(x) = 4x - 5$ ,  $g(x) = 6x - 2$

77) \_\_\_\_\_

Find  $f - g$ .

78)  $f(x) = 2 - 4x$ ,  $g(x) = -6x + 4$

78) \_\_\_\_\_

Find  $f + g$ .

79)  $f(x) = 9x - 9$ ,  $g(x) = 5x - 8$

79) \_\_\_\_\_

Find  $fg$ .

**Find the domain of the function.**

$$80) \frac{x}{\sqrt{x-6}}$$

80) \_\_\_\_\_

$$81) \frac{x}{\sqrt{x-8}}$$

81) \_\_\_\_\_

$$82) f(x) = \frac{1}{x-8}$$

82) \_\_\_\_\_

$$83) f(x) = \frac{1}{x+2}$$

83) \_\_\_\_\_

$$84) f(x) = \frac{-3x}{x+5}$$

84) \_\_\_\_\_

$$85) f(x) = \frac{-8x}{x+3}$$

85) \_\_\_\_\_

$$86) f(x) = x - \frac{6}{x+3}$$

86) \_\_\_\_\_

$$87) f(x) = x - \frac{7}{x-6}$$

87) \_\_\_\_\_

$$88) f(x) = \frac{1}{x-8} + \frac{4}{x-4}$$

88) \_\_\_\_\_

$$89) f(x) = \frac{1}{x-5} + \frac{4}{x-3}$$

89) \_\_\_\_\_

**For the given functions  $f$  and  $g$ , find the indicated composition.**

$$90) f(x) = 16x^2 - 2x, g(x) = 8x - 6$$
$$(f \circ g)(3)$$

90) \_\_\_\_\_

$$91) f(x) = 11x^2 - 2x, g(x) = 18x - 7$$
$$(f \circ g)(1)$$

91) \_\_\_\_\_

$$92) f(x) = x^2 - 2x + 5, g(x) = x^2 - 2x - 5$$
$$(f \circ g)(-4)$$

92) \_\_\_\_\_

$$93) f(x) = x^2 + 2x + 2, g(x) = x^2 + 2x + 1$$
$$(f \circ g)(-3)$$

93) \_\_\_\_\_

$$94) f(x) = 8x + 12, g(x) = 4x - 1$$
$$(f \circ g)(x)$$

94) \_\_\_\_\_

$$95) f(x) = 8x + 6, g(x) = 2x - 1$$
$$(f \circ g)(x)$$

95) \_\_\_\_\_

96)  $f(x) = -6x + 2$ ,  $g(x) = 3x + 3$   
 $(g \circ f)(x)$

96) \_\_\_\_\_

97)  $f(x) = -2x + 4$ ,  $g(x) = 6x + 8$   
 $(g \circ f)(x)$

97) \_\_\_\_\_

98)  $f(x) = \frac{4}{x+3}$ ,  $g(x) = \frac{7}{5x}$   
 $(f \circ g)(x)$

98) \_\_\_\_\_

99)  $f(x) = \frac{3}{x-3}$ ,  $g(x) = \frac{8}{3x}$   
 $(f \circ g)(x)$

99) \_\_\_\_\_

100)  $f(x) = \frac{x-9}{8}$ ,  $g(x) = 8x + 9$   
 $(g \circ f)(x)$

100) \_\_\_\_\_

101)  $f(x) = \frac{x-4}{8}$ ,  $g(x) = 8x + 4$   
 $(g \circ f)(x)$

101) \_\_\_\_\_

102)  $f(x) = 4x^2 + 6x + 3$ ,  $g(x) = 6x - 7$   
 $(g \circ f)(x)$

102) \_\_\_\_\_

103)  $f(x) = 4x^2 + 5x + 3$ ,  $g(x) = 5x - 5$   
 $(g \circ f)(x)$

103) \_\_\_\_\_

**Decide whether the relation is a function.**

104)  $\{(-1, -1), (1, -6), (6, -7), (9, 8), (12, -7)\}$

104) \_\_\_\_\_

105)  $\{(-4, -2), (-3, 9), (4, 8), (4, -1)\}$

105) \_\_\_\_\_

106)  $\{(-5, -7), (-3, 3), (1, -5), (5, 1)\}$

106) \_\_\_\_\_

**Find the slope of the line passing through the pair of points or state that the slope is undefined.**

107) (16, -4) and (4, 15)

107) \_\_\_\_\_

108) (-1, 19) and (9, -4)

108) \_\_\_\_\_

109) (4, -5), (-4, -8)

109) \_\_\_\_\_

110) (-7, -8), (9, 1)

110) \_\_\_\_\_

111) (1, -6) and (1, 2)

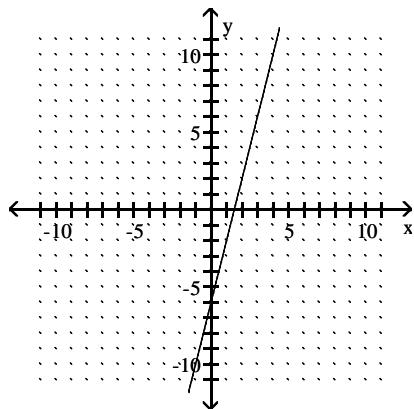
111) \_\_\_\_\_

112) (4, -8) and (4, -1)

112) \_\_\_\_\_

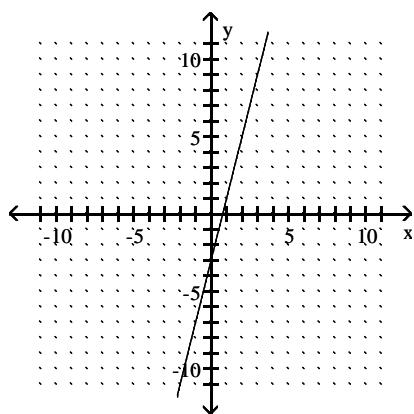
**Find the slope of the line, or state that the slope is undefined.**

113)



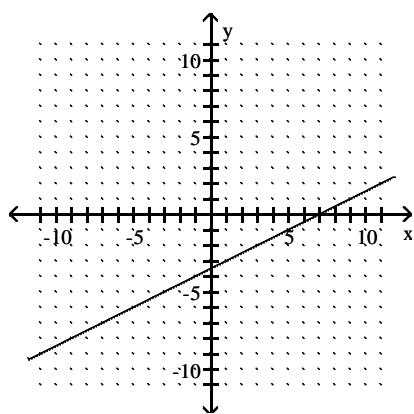
113) \_\_\_\_\_

114)



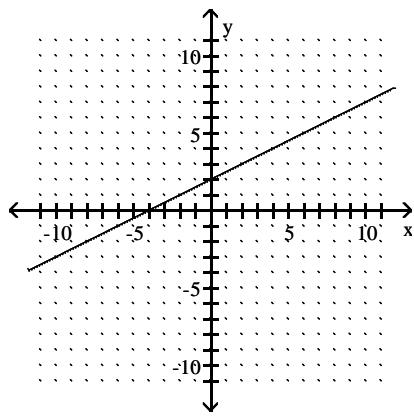
114) \_\_\_\_\_

115)



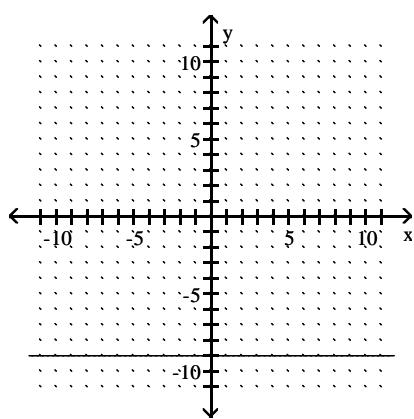
115) \_\_\_\_\_

116)



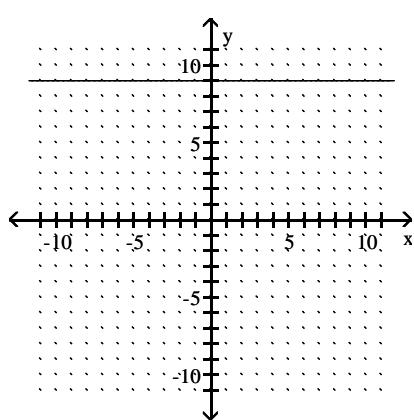
116) \_\_\_\_\_

117)



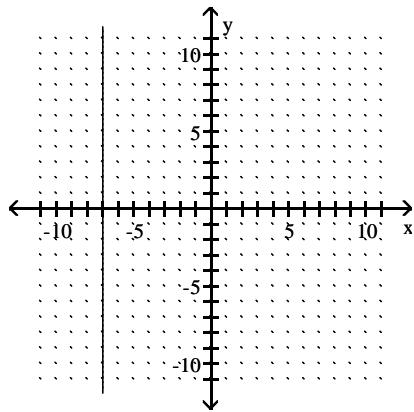
117) \_\_\_\_\_

118)



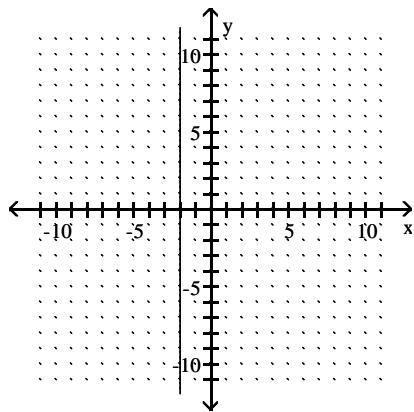
118) \_\_\_\_\_

119)



119) \_\_\_\_\_

120)



120) \_\_\_\_\_

Solve the system by the addition method. If there is no solution or an infinite number of solutions, so state. Use set notation to express the solution set.

$$121) \begin{cases} x + y = -2 \\ x - y = -4 \end{cases}$$

121) \_\_\_\_\_

$$122) \begin{cases} x + y = 2 \\ x - y = -14 \end{cases}$$

122) \_\_\_\_\_

$$123) \begin{cases} x - 3y = -18 \\ 2x - 3y = -12 \end{cases}$$

123) \_\_\_\_\_

$$124) \begin{cases} -6x + 7y = -21 \\ -3x + 3y = -9 \end{cases}$$

124) \_\_\_\_\_

$$125) \begin{cases} -7x - 7y = -63 \\ -3x - 5y = -45 \end{cases}$$

125) \_\_\_\_\_

$$126) \begin{cases} \frac{1}{2}x + \frac{1}{2}y = 0 \\ \frac{1}{3}x - \frac{1}{3}y = 4 \end{cases}$$

126) \_\_\_\_\_

$$127) \begin{cases} \frac{1}{2}x + \frac{1}{2}y = 1 \\ \frac{1}{2}x - \frac{1}{2}y = 6 \end{cases}$$

127) \_\_\_\_\_

**Solve the problem.**

- 128) Devon purchased tickets to an air show for 5 adults and 2 children. The total cost was \$163. The cost of a child's ticket was \$6 less than the cost of an adult's ticket. Find the price of an adult's ticket and a child's ticket.

128) \_\_\_\_\_

- 129) Devon purchased tickets to an air show for 6 adults and 2 children. The total cost was \$114. The cost of a child's ticket was \$7 less than the cost of an adult's ticket. Find the price of an adult's ticket and a child's ticket.

129) \_\_\_\_\_

- 130) A barge takes 3 hours to move (at a constant rate) downstream for 27 miles, helped by a current of 3 miles per hour. If the barge's engines are set at the same pace, find the time of its return trip against the current.

130) \_\_\_\_\_

- 131) A barge takes 2 hours to move (at a constant rate) downstream for 16 miles, helped by a current of 3 miles per hour. If the barge's engines are set at the same pace, find the time of its return trip against the current.

131) \_\_\_\_\_

- 132) Khang and Hector live 33.6 miles apart in southeastern Missouri. They decide to bicycle towards each other and meet somewhere in between. Hector's rate of speed is 40% of Khang's. They start out at the same time and meet 3 hours later. Find Hector's rate of speed.

132) \_\_\_\_\_

- 133) Khang and Hector live 81.6 miles apart in southeastern Missouri. They decide to bicycle towards each other and meet somewhere in between. Hector's rate of speed is 70% of Khang's. They start out at the same time and meet 4 hours later. Find Hector's rate of speed.

133) \_\_\_\_\_

- 134) Doreen and Irena plan to leave their houses at the same time, roller blade towards each other, and meet for lunch after 2 hours on the road. Doreen can maintain a speed of 6.3 miles per hour, which is 90% of Irena's speed. If they meet exactly as planned, what is the distance between their houses?

134) \_\_\_\_\_

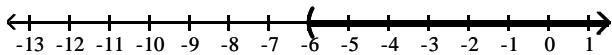
- 135) Doreen and Irena plan to leave their houses at the same time, roller blade towards each other, and meet for lunch after 3 hours on the road. Doreen can maintain a speed of 2.4 miles per hour, which is 40% of Irena's speed. If they meet exactly as planned, what is the distance between their houses?

135) \_\_\_\_\_

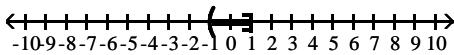
## Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V02

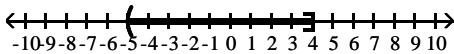
1)  $(-6, \infty)$



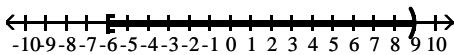
2)  $\{x \mid -1 < x \leq 1\}$



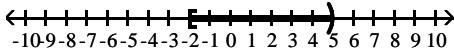
3)  $\{x \mid -5 < x \leq 4\}$



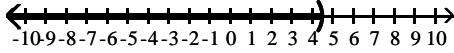
4)  $\{x \mid -6 \leq x < 9\}$



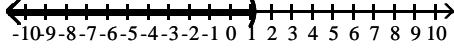
5)  $\{x \mid -2 \leq x < 5\}$



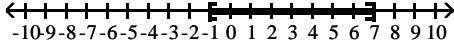
6)  $\left\{x \mid x < \frac{9}{2}\right\}$



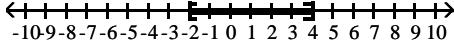
7)  $\left\{x \mid x < \frac{6}{5}\right\}$



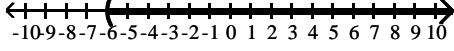
8)  $\{x \mid -1 \leq x \leq 7\}$



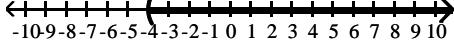
9)  $\{x \mid -2 \leq x \leq 4\}$



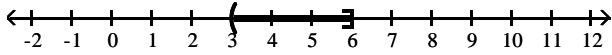
10)  $\{x \mid x > -6\}$



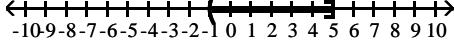
11)  $\{x \mid x > -4\}$



12)  $(3, 6]$



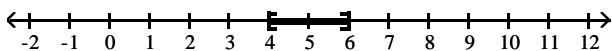
13)  $(-1, 5]$



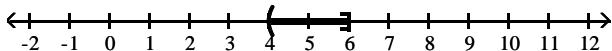
## Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V02

14)  $[4, 6]$



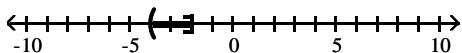
15)  $(4, 6]$



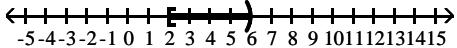
16)  $[2, 6]$



17)  $(-4, -2]$



18)  $[2, 6)$



19)  $[-4, 0)$

20)  $[-4, 0)$

21)  $(-9, 6]$

22)  $(-10, 2]$

23)  $[-6, 2)$

24)  $[-7, 2)$

25)  $(-\infty, 18)$

26)  $(-\infty, 12)$

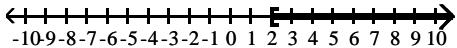
27)  $[19, \infty)$

28)  $[17, \infty)$

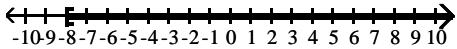
29)  $(1, \infty)$

30)  $(9, \infty)$

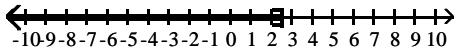
31)  $\{x \mid x \geq 2\}$



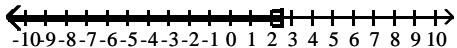
32)  $\{x \mid x \geq -8\}$



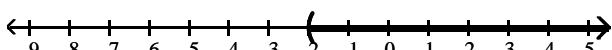
33)  $\{x \mid x \leq 2.5\}$



34)  $\{x \mid x \leq 2.5\}$



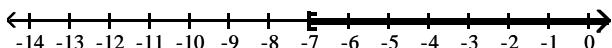
35)  $(-2, \infty)$



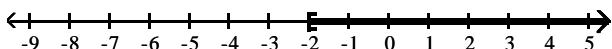
## Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V02

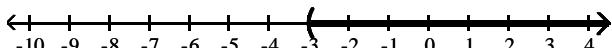
36)  $[-7, \infty)$



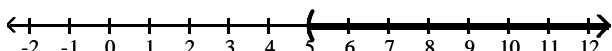
37)  $[-2, \infty)$



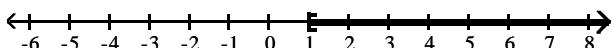
38)  $(-3, \infty)$



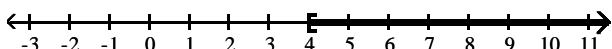
39)  $(5, \infty)$



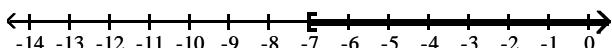
40)  $[1, \infty)$



41)  $[4, \infty)$



42)  $[-7, \infty)$



43) \$4000

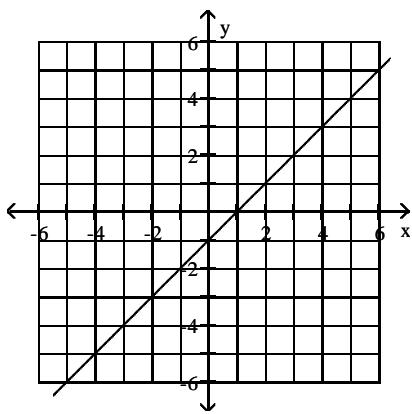
44) \$2000

45) \$20,000

46) \$25,000

47) \$27,000

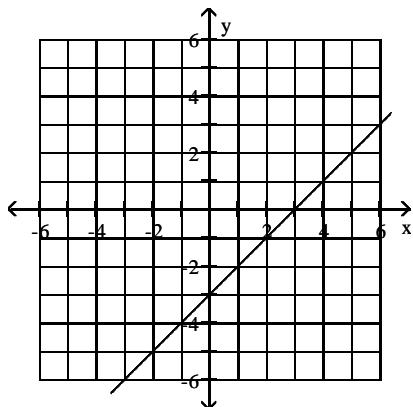
48)



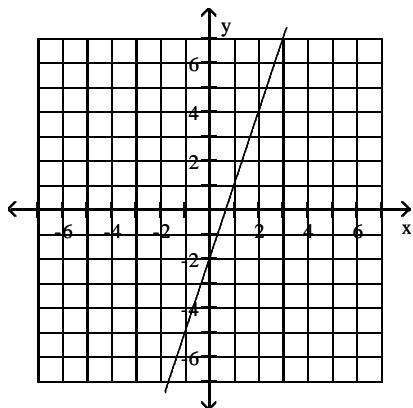
Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V02

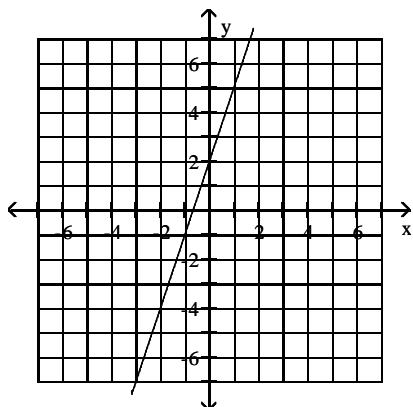
49)



50)



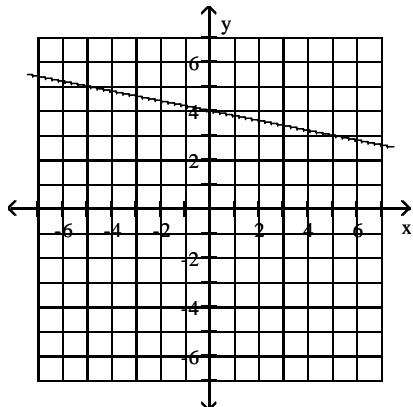
51)



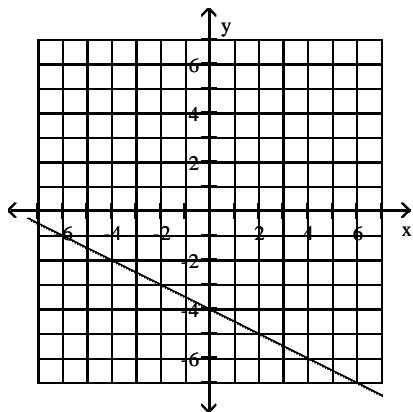
**Answer Key**

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V02

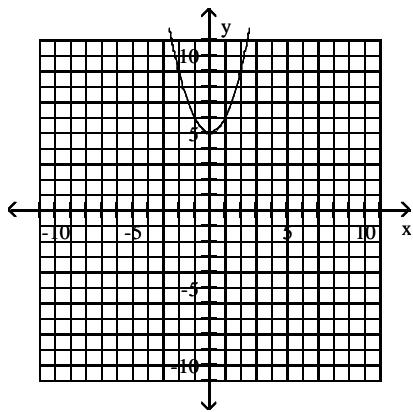
52)



53)



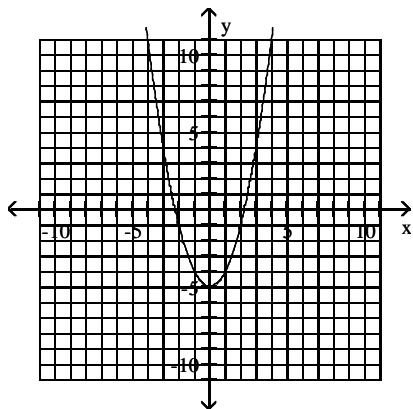
54)



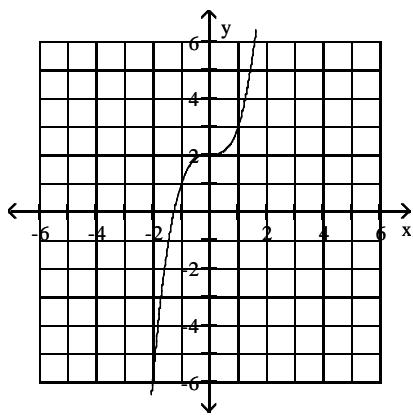
**Answer Key**

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V02

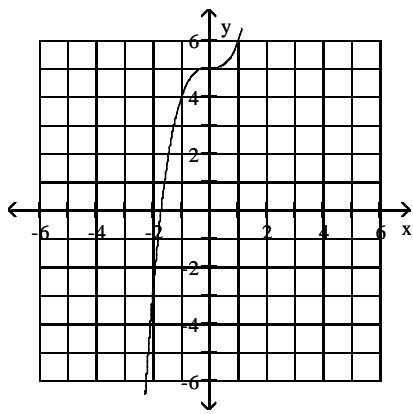
55)



56)



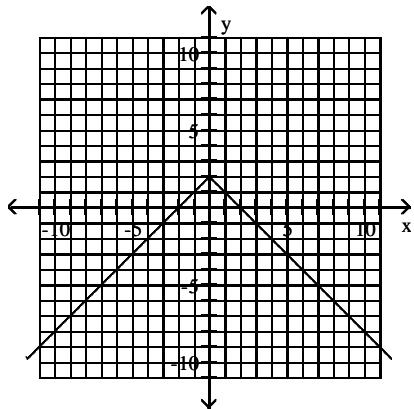
57)



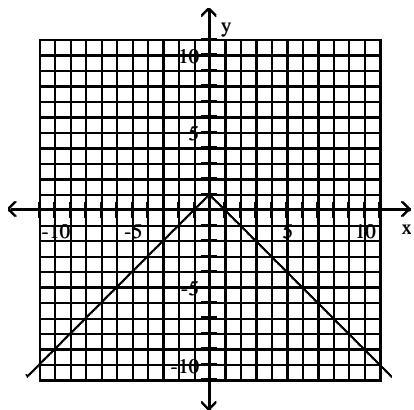
**Answer Key**

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V02

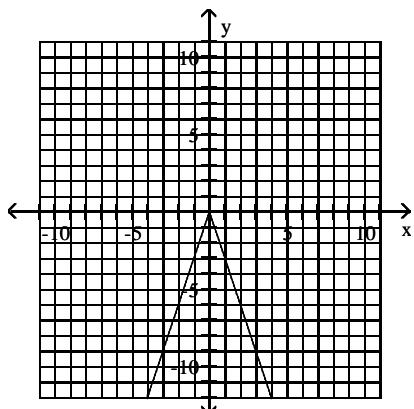
58)



59)



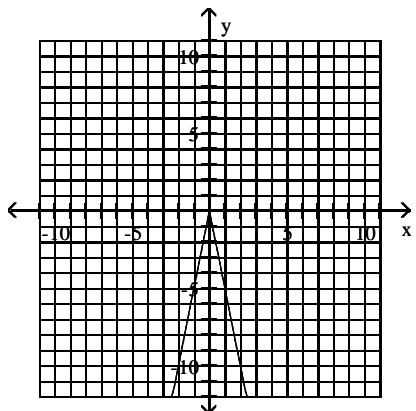
60)



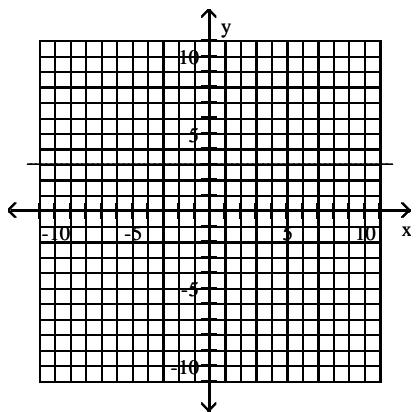
Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V02

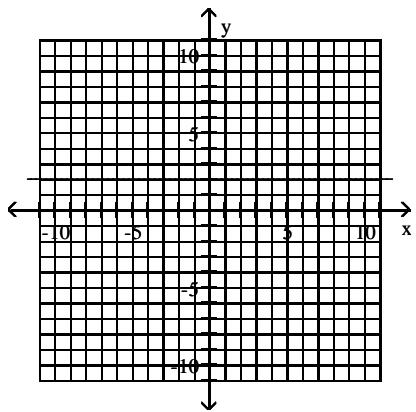
61)



62)



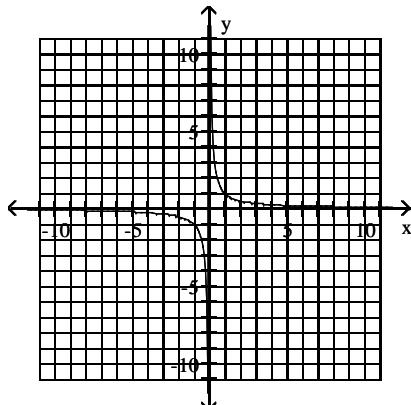
63)



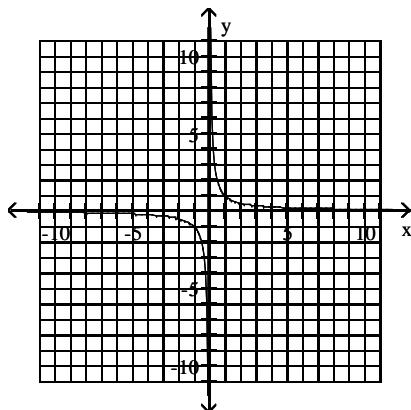
Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V02

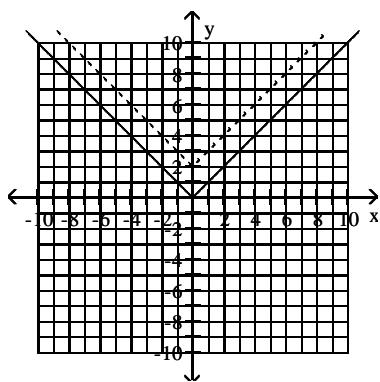
64)



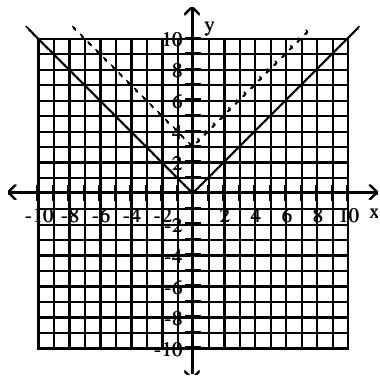
65)



66)



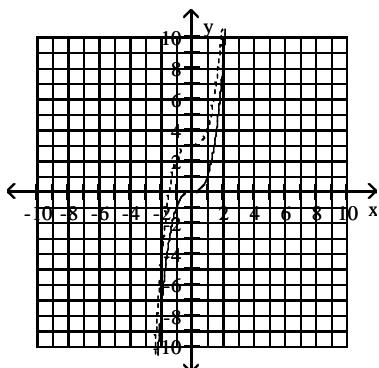
67)



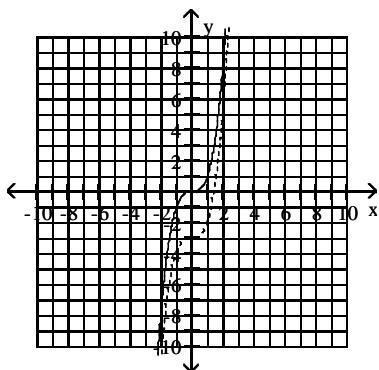
## Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V02

68)



69)



70) domain: {2, 2, 6}

range: {5, 7, 1, 14}

not a function

71) domain: {2, 8, 5}

range: {5, 4, 3, 7}

not a function

72) domain: {-2,-1, 1, 2}

range: { 2, 5}

function

73) domain: {-9,-3, 3, 9}

range: { 6, 12}

function

74) No

75) Yes

76)  $21x^2 - 34x - 35$

77)  $-2x - 3$

78)  $-10x + 6$

79)  $45x^2 - 117x + 72$

80)  $(6, \infty)$

81)  $(8, \infty)$

82)  $(-\infty, 8) \cup (8, \infty)$

83)  $(-\infty, -2) \cup (-2, \infty)$

84)  $(-\infty, -5) \cup (-5, \infty)$

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

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

87)  $(-\infty, 6) \cup (6, \infty)$

## Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V02

88)  $(-\infty, 4) \cup (4, 8) \cup (8, \infty)$

89)  $(-\infty, 3) \cup (3, 5) \cup (5, \infty)$

90) 5148

91) 1309

92) 328

93) 26

94)  $32x + 4$

95)  $16x - 2$

96)  $-18x + 9$

97)  $-12x + 32$

98)  $\frac{20x}{7 + 15x}$

99)  $\frac{9x}{8 - 9x}$

100) x

101) x

102)  $24x^2 + 36x + 11$

103)  $20x^2 + 25x + 10$

104) Function

105) Not a function

106) Function

107)  $-\frac{19}{12}$

108)  $-\frac{23}{10}$

109)  $\frac{3}{8}$

110)  $\frac{9}{16}$

111) undefined

112) undefined

113) 4

114) 4

115)  $\frac{1}{2}$

116)  $\frac{1}{2}$

117) 0

118) 0

119) Undefined

120) Undefined

121)  $\{(-3, 1)\}$

122)  $\{(-6, 8)\}$

123)  $\{(6, 8)\}$

124)  $\{(0, -3)\}$

125)  $\{(0, 9)\}$

126)  $\{(6, -6)\}$

127)  $\{(7, -5)\}$

## Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V02

128) adult's ticket: \$25; child's ticket: \$19

129) adult's ticket: \$16; child's ticket: \$9

130) 9 hours

131) 8 hours

132) 3.2 mph

133) 8.4 mph

134) 26.6 miles

135) 25.2 miles