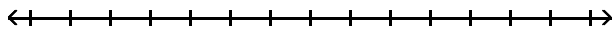


Name \_\_\_\_\_

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

1)  $4x - 2 > 3x - 7$

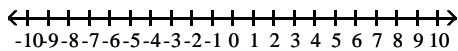
1) \_\_\_\_\_



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

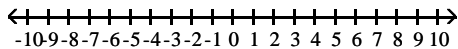
2)  $(-7, 4]$

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



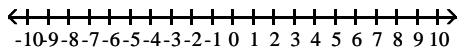
3)  $(-5, 8]$

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



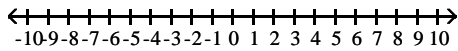
4)  $[-3, 4)$

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

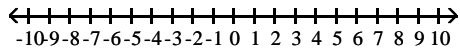


5)  $[-5, 7)$

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

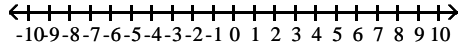


6)  $\left(-\infty, \frac{9}{5}\right)$



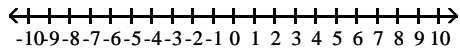
6) \_\_\_\_\_

7)  $\left(-\infty, \frac{9}{4}\right)$



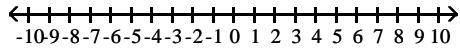
7) \_\_\_\_\_

8)  $[-5, 8]$



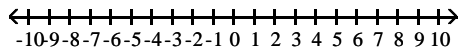
8) \_\_\_\_\_

9)  $[-4, 3]$



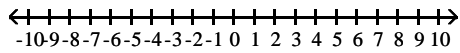
9) \_\_\_\_\_

10)  $(2, \infty)$



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

11)  $(8, \infty)$

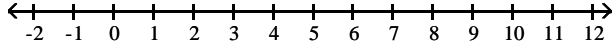


11) \_\_\_\_\_

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

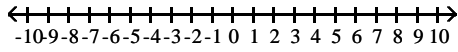
12)  $15 < 5x \leq 25$

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



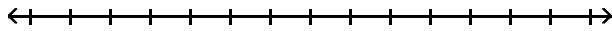
13)  $-3 < x + 3 \leq 3$

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



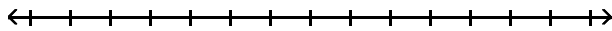
14)  $17 \leq 3x + 5 \leq 23$

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



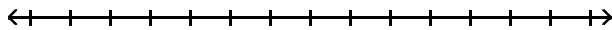
15)  $-23 \leq -4x + 5 < -3$

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



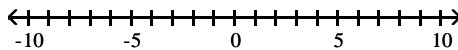
16)  $-7 \leq -2x + 5 \leq -3$

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



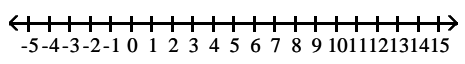
17)  $-4 \leq -4x - 12 < 4$

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



18)  $-3 \leq \frac{5}{3}x - 8 < 2$

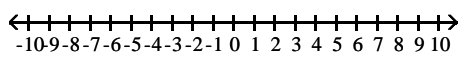
18) \_\_\_\_\_



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

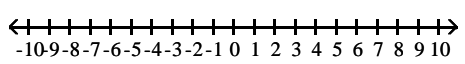
19)  $[-9, \infty)$

19) \_\_\_\_\_



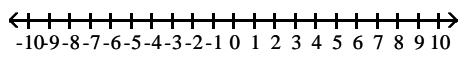
20)  $[-1, \infty)$

20) \_\_\_\_\_



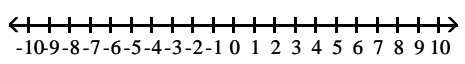
21)  $(-\infty, 8.5]$

21) \_\_\_\_\_



22)  $(-\infty, 7.5]$

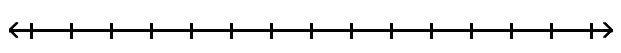
22) \_\_\_\_\_



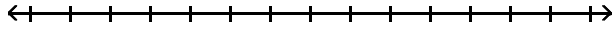
State the solution set of the inequality in interval notation and sketch its graph.

23)  $8x + 5 > 7x - 1$

23) \_\_\_\_\_

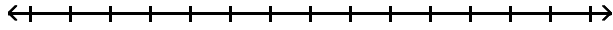


24)  $-5x + 2 \geq -6x + 5$



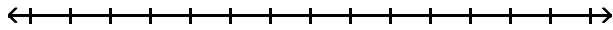
24) \_\_\_\_\_

25)  $-6x + 1 \geq -7x - 4$



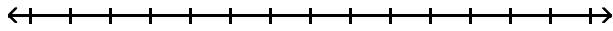
25) \_\_\_\_\_

26)  $10x - 12 > 2(4x - 8)$



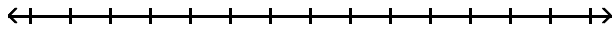
26) \_\_\_\_\_

27)  $21x + 15 > 3(6x - 2)$



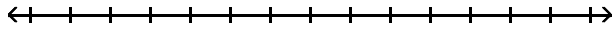
27) \_\_\_\_\_

28)  $-12x - 9 \leq -3(3x - 4)$



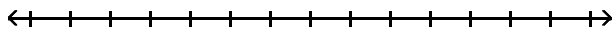
28) \_\_\_\_\_

29)  $-12x - 6 \leq -3(3x + 5)$



29) \_\_\_\_\_

30)  $6x - 1 \geq 5x - 7$



30) \_\_\_\_\_

**Solve.**

31) 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 \$900, how much did Kevin invest in the mutual fund? 31) \_\_\_\_\_

32) 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? 32) \_\_\_\_\_

33) 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 \$7200, how much was invested at 3%? 33) \_\_\_\_\_

34) A bank loaned out \$68,000, part of it at the rate of 14% per year and the rest at a rate of 7% per year. If the interest received was \$6580, how much was loaned at 14%? 34) \_\_\_\_\_

35) A bank loaned out \$54,000, part of it at the rate of 11% per year and the rest at a rate of 5% per year. If the interest received was \$4200, how much was loaned at 11%? 35) \_\_\_\_\_

**Solve the problem.**

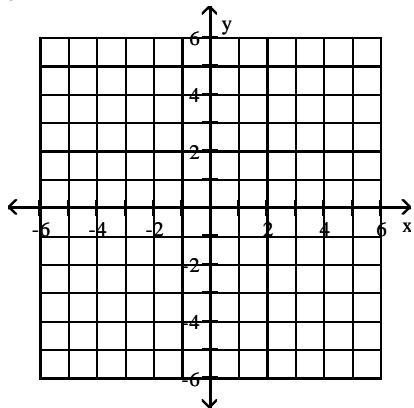
36) Jamil always throws loose change into a pencil holder on his desk and takes it out every two weeks. This time it is all nickels and dimes. There are 3 times as many dimes as nickels, and the value of the dimes is \$1.25 more than the value of the nickels. How many nickels and dimes does Jamil have? 36) \_\_\_\_\_

37) Jamil always throws loose change into a pencil holder on his desk and takes it out every two weeks. This time it is all nickels and dimes. There are 5 times as many dimes as nickels, and the value of the dimes is \$1.35 more than the value of the nickels. How many nickels and dimes does Jamil have? 37) \_\_\_\_\_

Graph the equation.

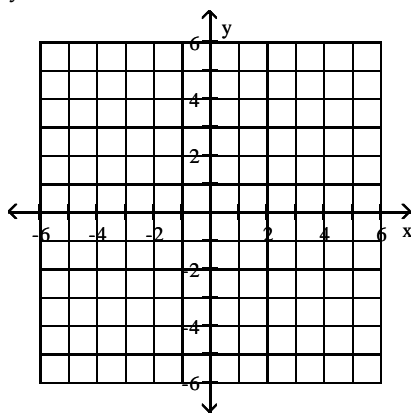
38)  $y = x - 3$

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



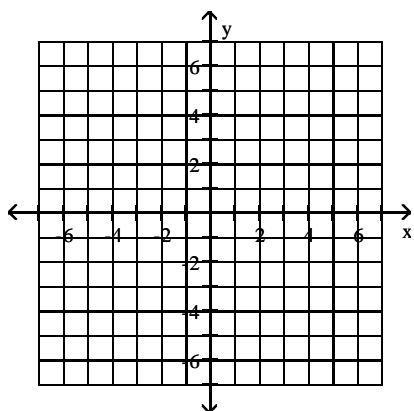
39)  $y = x + 5$

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



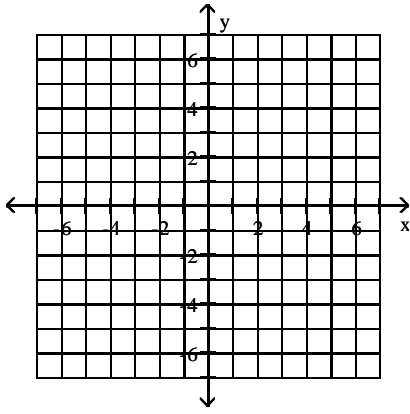
40)  $y = 6x - 3$

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



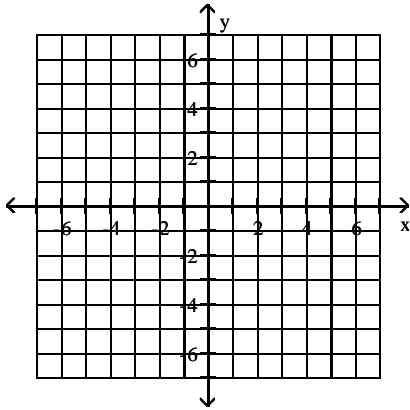
41)  $y = 6x - 5$

41) \_\_\_\_\_



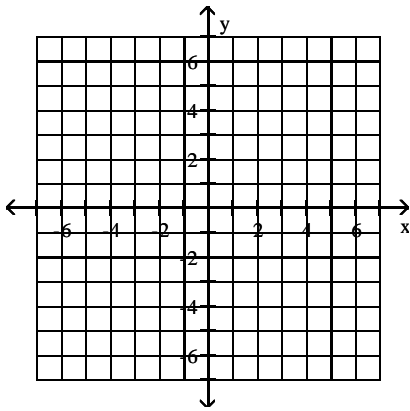
42)  $y = -\frac{1}{2}x - 2$

42) \_\_\_\_\_



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

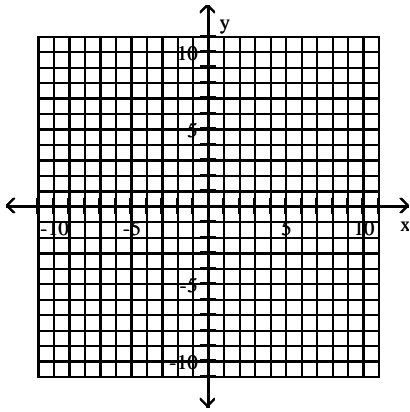
43) \_\_\_\_\_





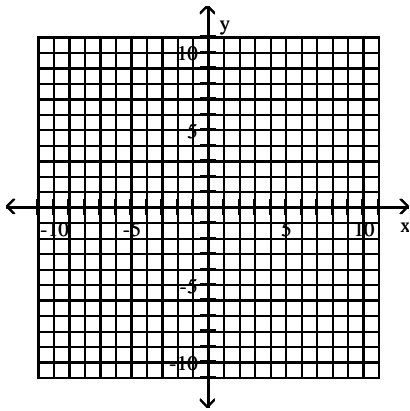
44)  $y = x^2 - 2$

44) \_\_\_\_\_



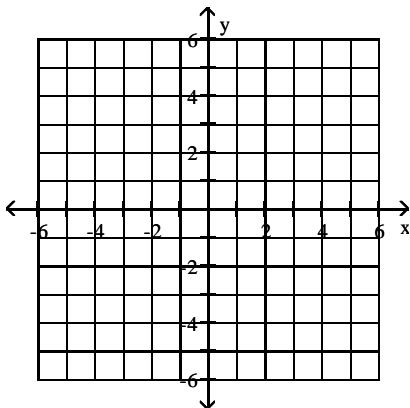
45)  $y = x^2 - 3$

45) \_\_\_\_\_



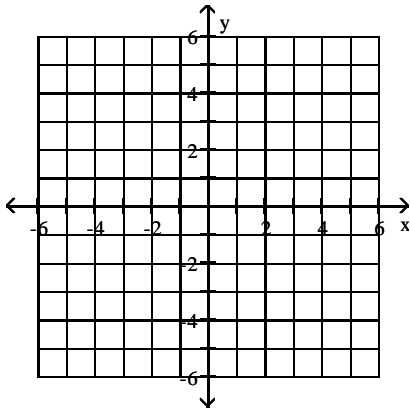
46)  $y = x^3 + 3$

46) \_\_\_\_\_



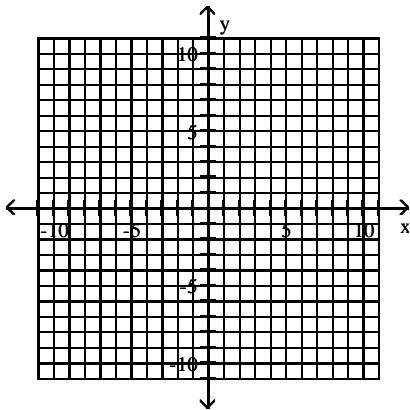
47)  $y = x^3 - 5$

47) \_\_\_\_\_



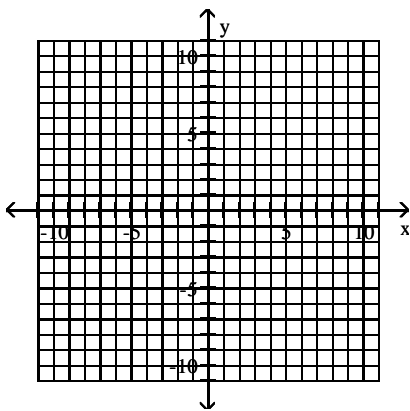
48)  $y = -|x| - 4$

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



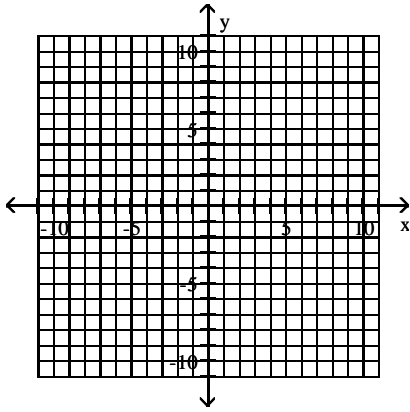
49)  $y = -|x| + 7$

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



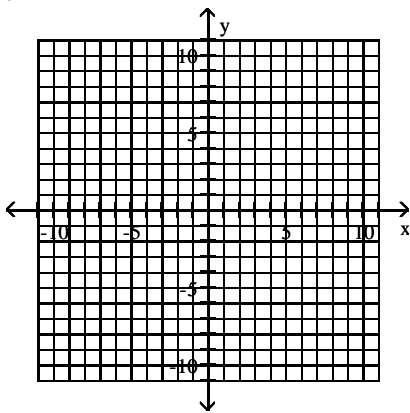
50)  $y = 2|x|$

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



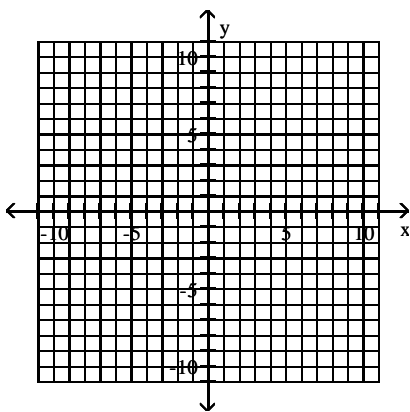
51)  $y = 5|x|$

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



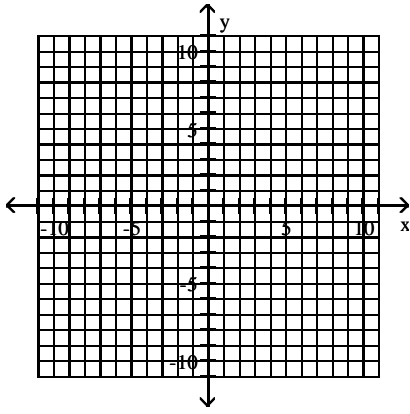
52)  $y = 1$

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



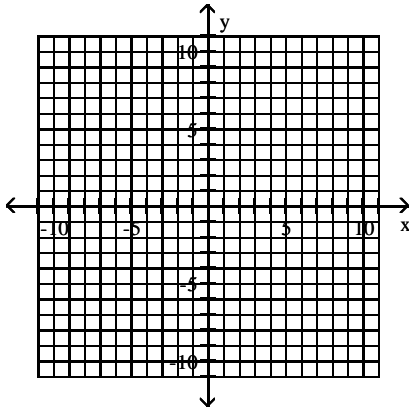
53)  $y = 4$

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



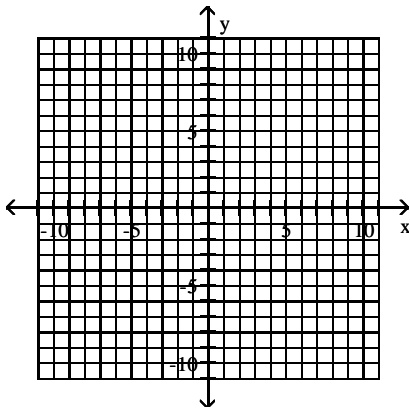
54)  $y = \frac{1}{x}$

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



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

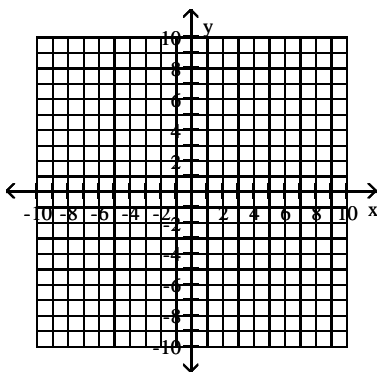
55) \_\_\_\_\_



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

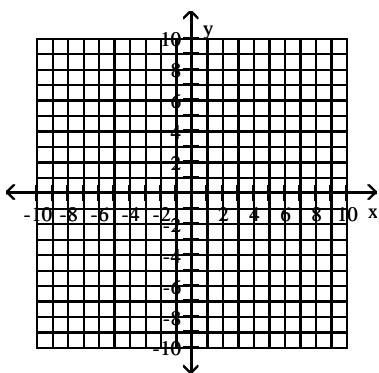
56)  $g(x) = |x| - 2$

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



57)  $g(x) = |x| - 3$

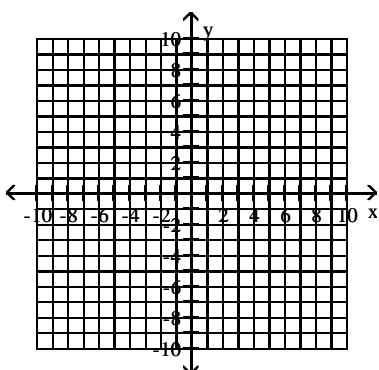
57) \_\_\_\_\_



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

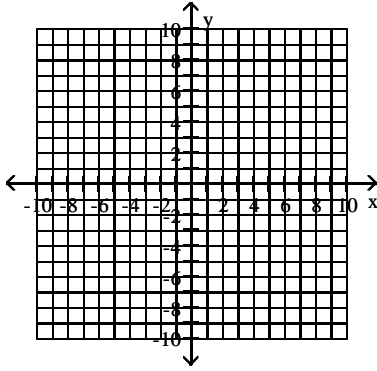
58)  $g(x) = x^3 + 2$

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



59)  $g(x) = x^3 - 2$

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



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

60) 

input	6	8	6	2
output	14	11	10	2

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

61) 

input	2	8	2	1
output	5	7	3	9

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

62) 

input	-9	-7	7	9
output	4	8	4	8

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

63) 

input	-3	-2	2	3
output	7	9	7	9

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

**Solve the problem.**

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

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

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

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

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

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

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

$$66) \begin{cases} x + y = -11 \\ x - y = 1 \end{cases}$$

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

$$67) \begin{cases} x + y = 1 \\ x - y = -5 \end{cases}$$

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

$$68) \begin{cases} x - 7y = 1 \\ 2x - 7y = 9 \end{cases}$$

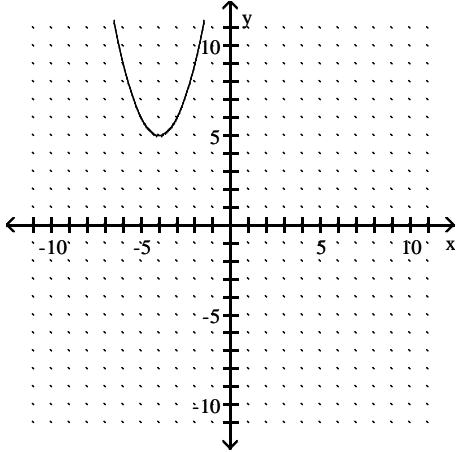
68) \_\_\_\_\_

$$69) \begin{cases} x + 2y = -2 \\ 2x + 2y = -8 \end{cases}$$

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

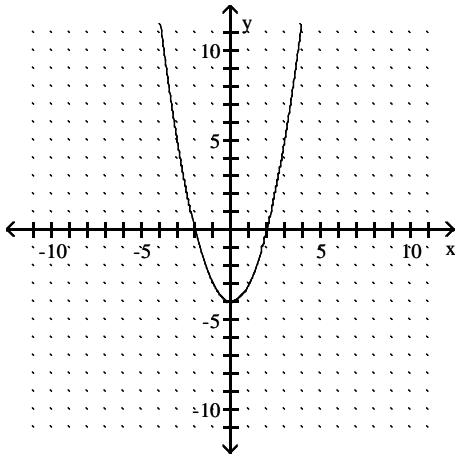
Find the domain and the range of the relation.

70)



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

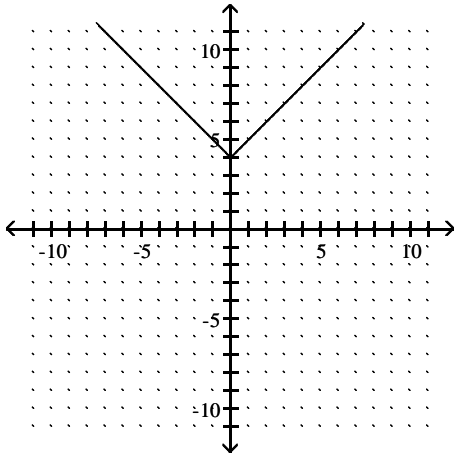
71)



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

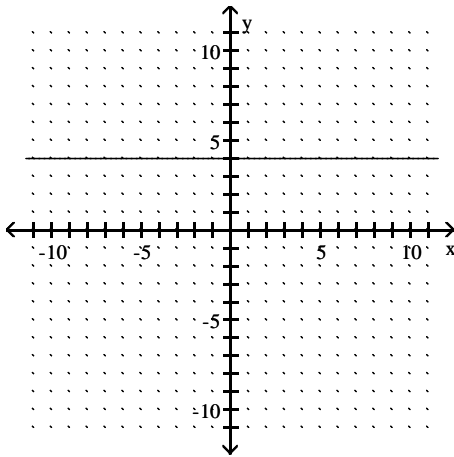


72)



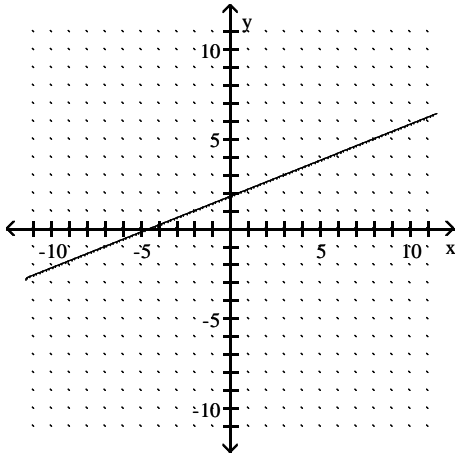
72) \_\_\_\_\_

73)



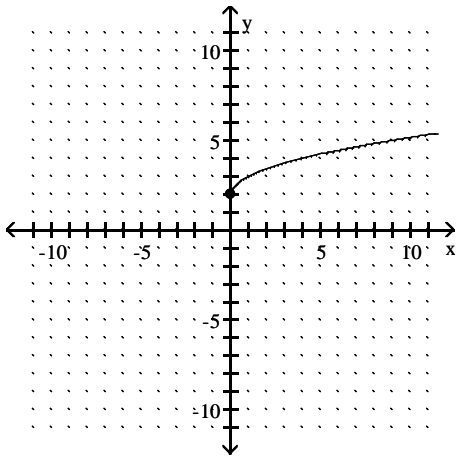
73) \_\_\_\_\_

74)



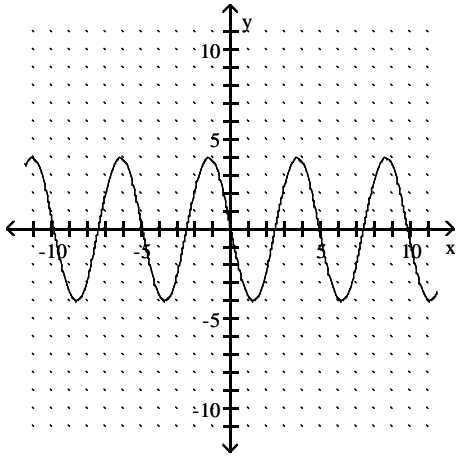
74) \_\_\_\_\_

75)



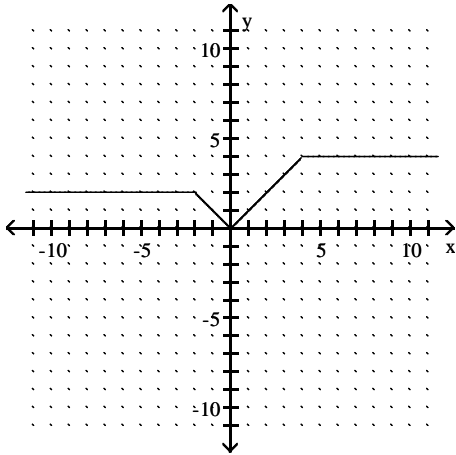
75) \_\_\_\_\_

76)



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

77)



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

Find the domain of the function.

78)  $\frac{x}{\sqrt{x-3}}$

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

79)  $\frac{x}{\sqrt{x-5}}$

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

$$80) f(x) = \frac{1}{x-4}$$

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

$$81) f(x) = \frac{1}{x+7}$$

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

$$82) f(x) = \frac{-4x}{x-3}$$

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

$$83) f(x) = \frac{-4x}{x+9}$$

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

$$84) f(x) = x - \frac{2}{x-3}$$

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

$$85) f(x) = x - \frac{5}{x+5}$$

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

$$86) f(x) = \frac{1}{x-9} + \frac{4}{x+9}$$

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

$$87) f(x) = \frac{1}{x-7} + \frac{4}{x-3}$$

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

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

88)  $\{(1, -9), (3, -3), (4, 9), (8, -4), (12, 6)\}$

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

89)  $\{(-3, -1), (-1, -5), (3, 2), (3, 4)\}$

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

90)  $\{(-6, 9), (-3, 4), (1, -9), (8, -7)\}$

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

**Evaluate the function at the given value.**

91)  $f(x) = 3x - 1$ ;  $f(-2)$

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

92)  $f(x) = -4x - 2$ ;  $f(9)$

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

93)  $f(x) = 14x + 9$ ;  $f(0)$

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

94)  $f(x) = x^2 + 4x + 2$ ;  $f(-3)$

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

95)  $h(x) = |x - 1|$ ;  $h(11)$

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

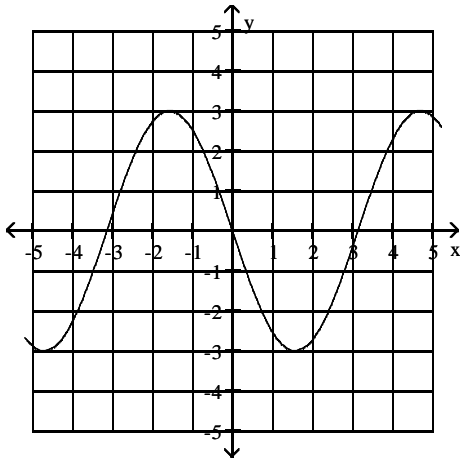
96)  $h(x) = 7$ ;  $h(9)$

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

Use the graph to find the indicated function value.

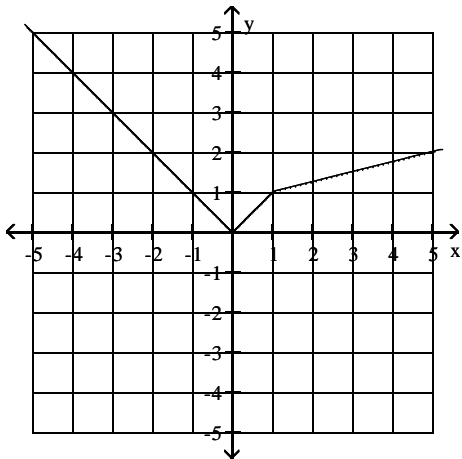
97)  $y = f(x)$ . Find  $f(-3)$

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



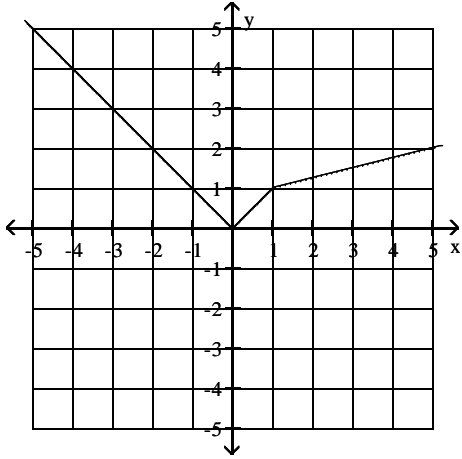
98)  $y = f(x)$ . Find  $f(2)$ .

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



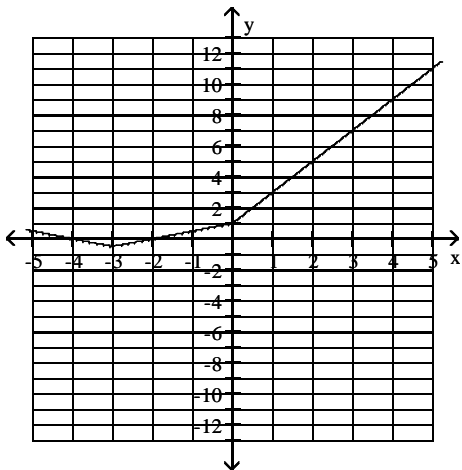
99)  $y = f(x)$ . Find  $f(-4)$

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



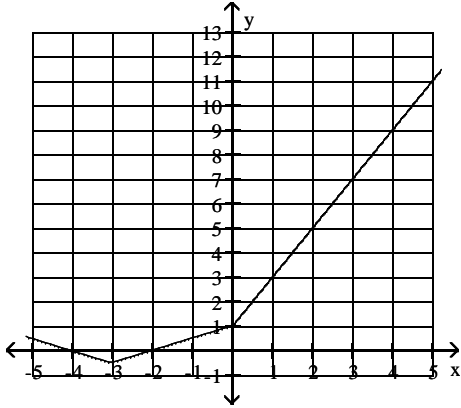
100)  $y = f(x)$ . Find  $f(2)$

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



101)  $y = f(x)$ . Find  $f(-5)$

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



**Evaluate the function at the given value.**

102)  $g(x) = -2x$ ;  $g(11)$

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

103)  $f(x) = x^2 + 11x$ ;  $f(-2)$

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

104)  $f(t) = \sqrt{t + 133} + 2$ ;  $f(11)$

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

105)  $f(r) = \frac{5r}{|5r|}$ ;  $f(-12)$

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

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

106)  $(-13, -2)$  and  $(-18, -14)$

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

107)  $(1, 6)$  and  $(-9, 2)$

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



108)  $(8, -2), (2, 7)$

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

109)  $(-8, -9), (9, -7)$

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

110)  $(-2, -4)$  and  $(-2, -1)$

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

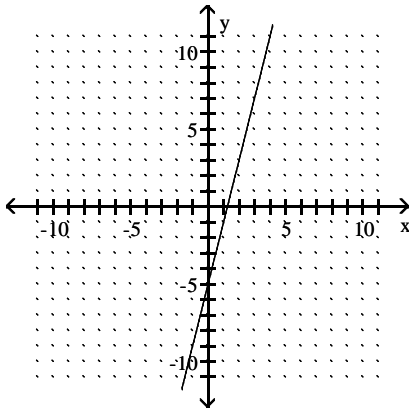
111)  $(-8, -1)$  and  $(-8, 8)$

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

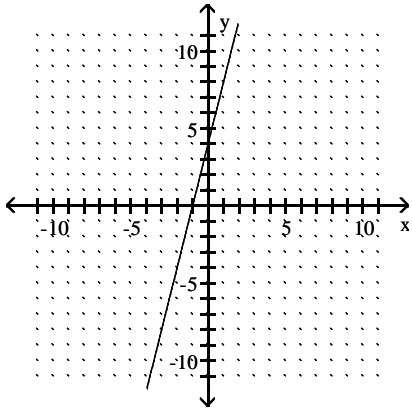
**Find the slope of the line, or state that the slope is undefined.**

112)

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

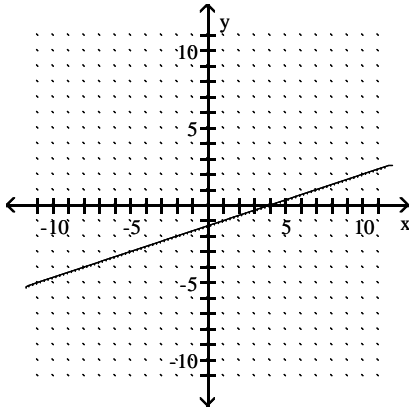


113)



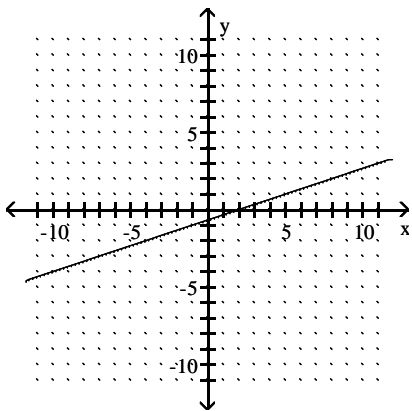
113) \_\_\_\_\_

114)



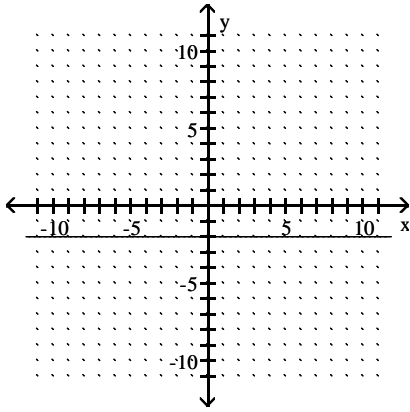
114) \_\_\_\_\_

115)



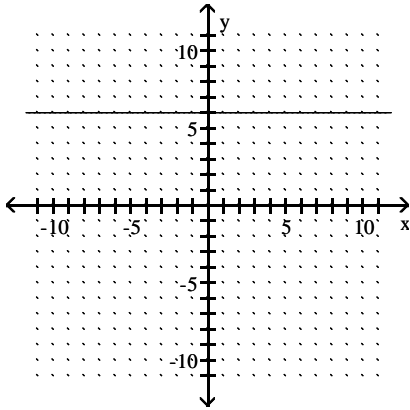
115) \_\_\_\_\_

116)



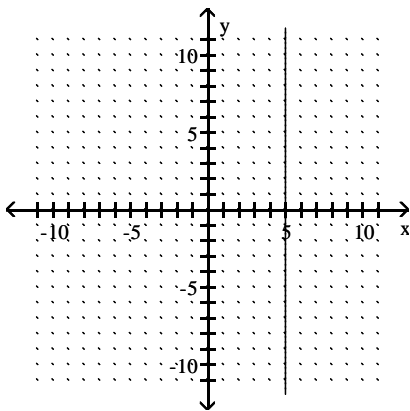
116) \_\_\_\_\_

117)



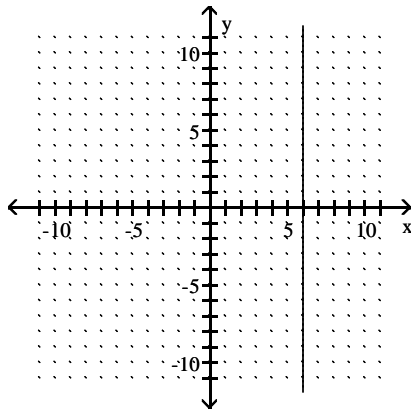
117) \_\_\_\_\_

118)



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

119)



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

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.

$$120) \begin{cases} x + y = 15 \\ x - y = -1 \end{cases}$$

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

$$121) \begin{cases} x + y = -6 \\ x - y = 2 \end{cases}$$

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

$$122) \begin{cases} x + 3y = 10 \\ 2x + 3y = 5 \end{cases}$$

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

$$123) \begin{cases} 7x + 5y = 25 \\ -5x + 2y = 10 \end{cases}$$

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

$$124) \begin{cases} 9x - 7y = -14 \\ -7x - 5y = -10 \end{cases}$$

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

$$125) \begin{cases} \frac{1}{2}x + \frac{1}{2}y = 4 \\ \frac{1}{3}x - \frac{1}{3}y = \frac{10}{3} \end{cases} \quad 125) \underline{\hspace{2cm}}$$

$$126) \begin{cases} \frac{1}{2}x + \frac{1}{2}y = 0 \\ \frac{1}{5}x - \frac{1}{5}y = -\frac{2}{5} \end{cases} \quad 126) \underline{\hspace{2cm}}$$

**Solve the problem.**

127) Devon purchased tickets to an air show for 6 adults and 2 children. The total cost was \$98. 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. 127) \_\_\_\_\_

128) Devon purchased tickets to an air show for 8 adults and 2 children. The total cost was \$224. The cost of a child's ticket was \$3 less than the cost of an adult's ticket. Find the price of an adult's ticket and a child's ticket. 128) \_\_\_\_\_

129) A barge takes 4 hours to move (at a constant rate) downstream for 40 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. 129) \_\_\_\_\_

130) A barge takes 5 hours to move (at a constant rate) downstream for 55 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) Khang and Hector live 68.4 miles apart in southeastern Missouri. They decide to bicycle towards each other and meet somewhere in between. Hector's rate of speed is 90% of Khang's. They start out at the same time and meet 3 hours later. Find Hector's rate of speed. 131) \_\_\_\_\_

132) Khang and Hector live 25.2 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 2 hours later. Find Hector's rate of speed. 132) \_\_\_\_\_

133) Doreen and Irena plan to leave their houses at the same time, roller blade towards each other, and meet for lunch after 4 hours on the road. Doreen can maintain a speed of 3.5 miles per hour, which is 70% of Irena's speed. If they meet exactly as planned, what is the distance between their houses? 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 3 miles per hour, which is 60% of Irena's speed. If they meet exactly as planned, what is the distance between their houses? 134) \_\_\_\_\_

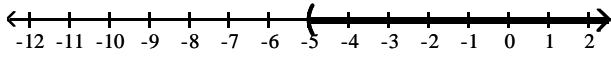
135) On a buying trip in Los Angeles, Rosaria Perez ordered 120 pieces of jewelry: a number of bracelets at \$8 each and a number of necklaces at \$13 each. She wrote a check for \$1060 to pay for the order. How many bracelets and how many necklaces did Rosaria purchase? 135) \_\_\_\_\_

136) On a buying trip in Los Angeles, Rosaria Perez ordered 120 pieces of jewelry: a number of bracelets at \$6 each and a number of necklaces at \$10 each. She wrote a check for \$1040 to pay for the order. How many bracelets and how many necklaces did Rosaria purchase? 136) \_\_\_\_\_

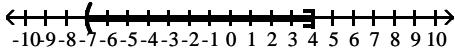
Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V01

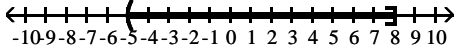
1)  $(-5, \infty)$



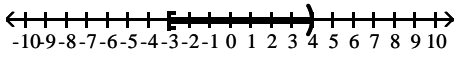
2)  $\{x \mid -7 < x \leq 4\}$



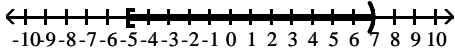
3)  $\{x \mid -5 < x \leq 8\}$



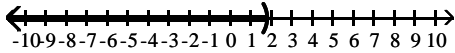
4)  $\{x \mid -3 \leq x < 4\}$



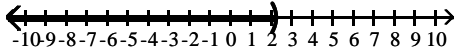
5)  $\{x \mid -5 \leq x < 7\}$



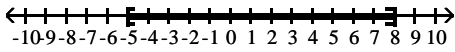
6)  $\left\{x \mid x < \frac{9}{5}\right\}$



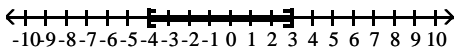
7)  $\left\{x \mid x < \frac{9}{4}\right\}$



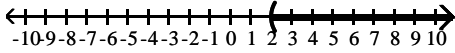
8)  $\{x \mid -5 \leq x \leq 8\}$



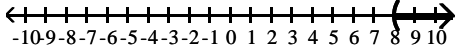
9)  $\{x \mid -4 \leq x \leq 3\}$



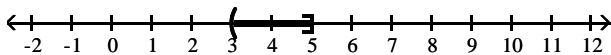
10)  $\{x \mid x > 2\}$



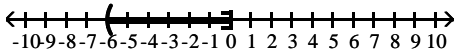
11)  $\{x \mid x > 8\}$



12)  $(3, 5]$



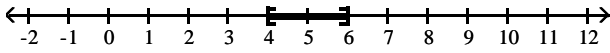
13)  $(-6, 0]$



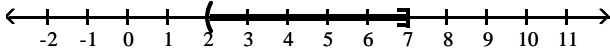
Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V01

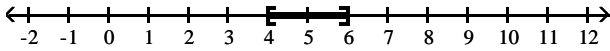
14)  $[4, 6]$



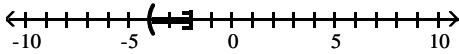
15)  $(2, 7]$



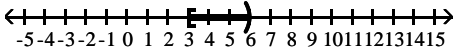
16)  $[4, 6]$



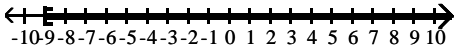
17)  $(-4, -2]$



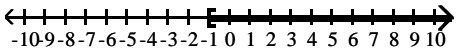
18)  $[3, 6)$



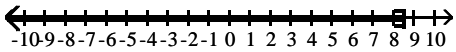
19)  $\{x \mid x \geq -9\}$



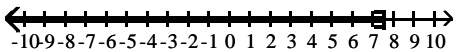
20)  $\{x \mid x \geq -1\}$



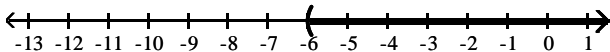
21)  $\{x \mid x \leq 8.5\}$



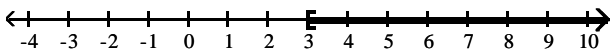
22)  $\{x \mid x \leq 7.5\}$



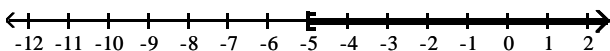
23)  $(-6, \infty)$



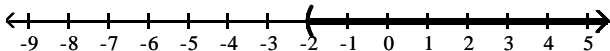
24)  $[3, \infty)$



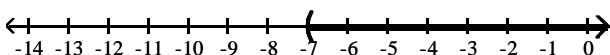
25)  $[-5, \infty)$



26)  $(-2, \infty)$



27)  $(-7, \infty)$

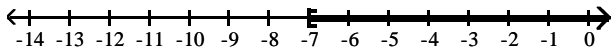




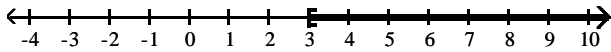
# Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V01

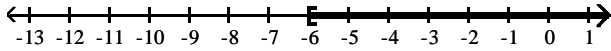
28)  $[-7, \infty)$



29)  $[3, \infty)$



30)  $[-6, \infty)$



31) \$6000

32) \$4000

33) \$40,000

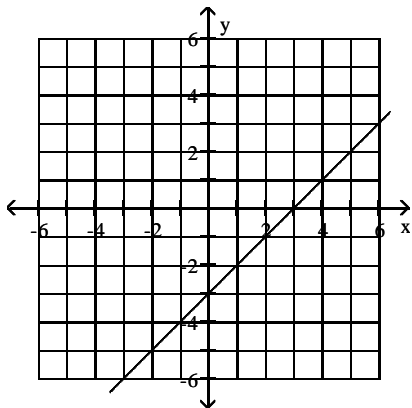
34) \$26,000

35) \$25,000

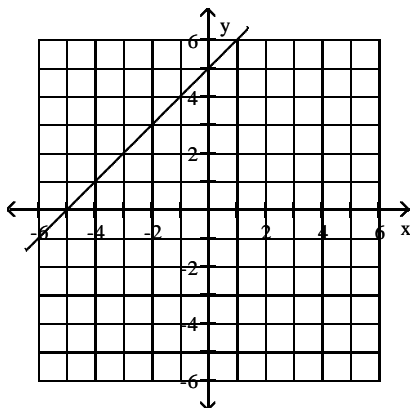
36) 5 nickels and 15 dimes

37) 3 nickels and 15 dimes

38)



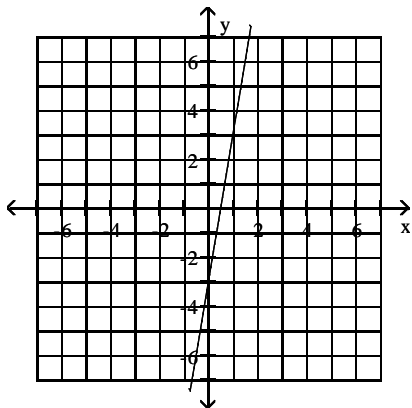
39)



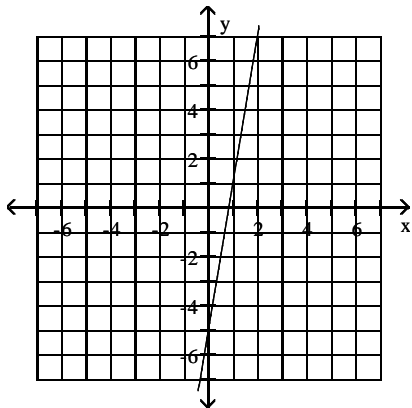
Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V01

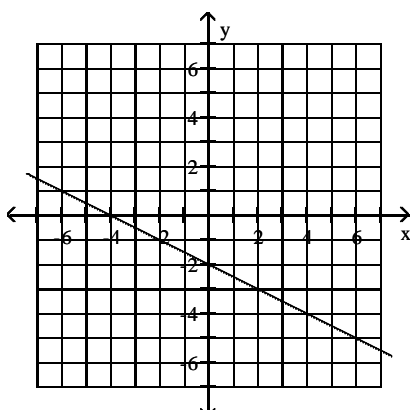
40)



41)



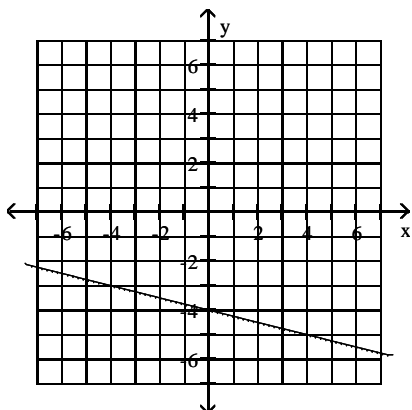
42)



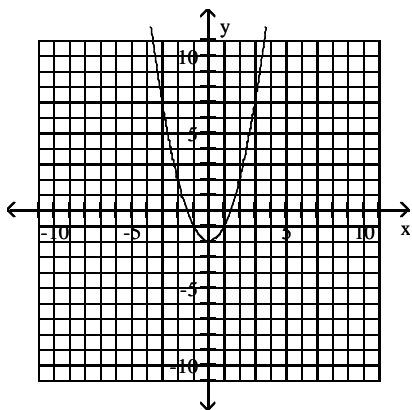
Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V01

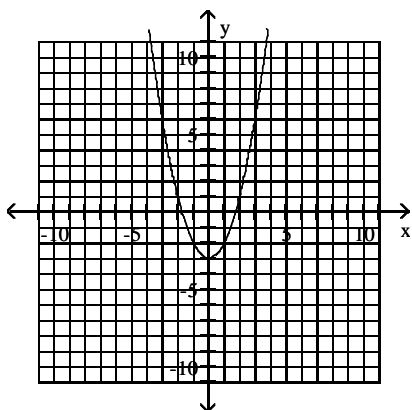
43)



44)



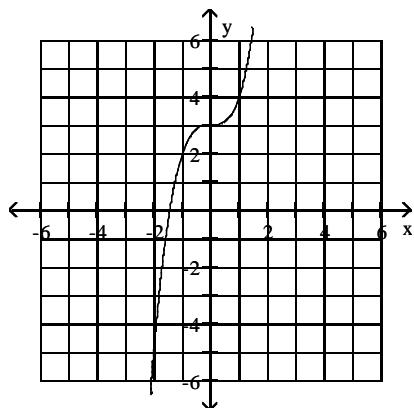
45)



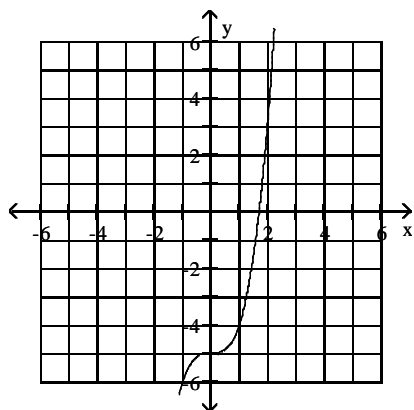
Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V01

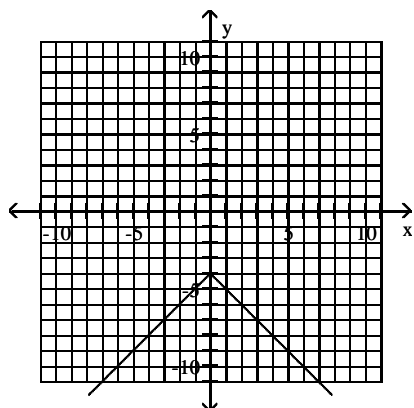
46)



47)



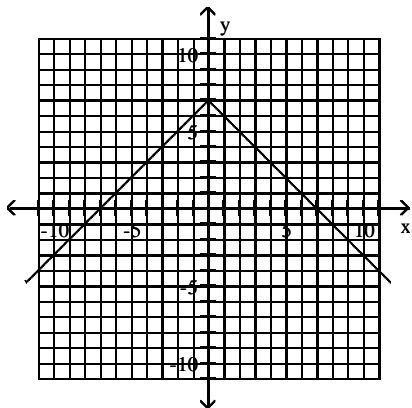
48)



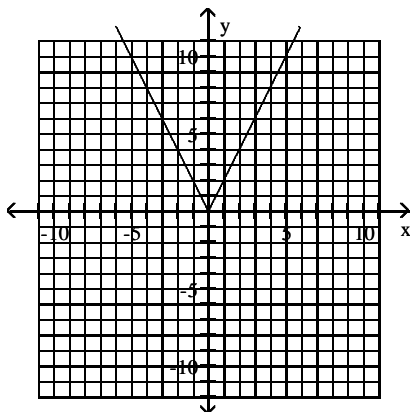
Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V01

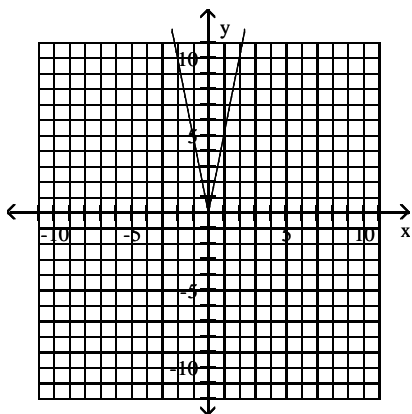
49)



50)



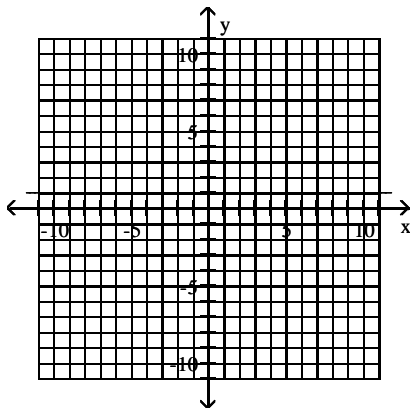
51)



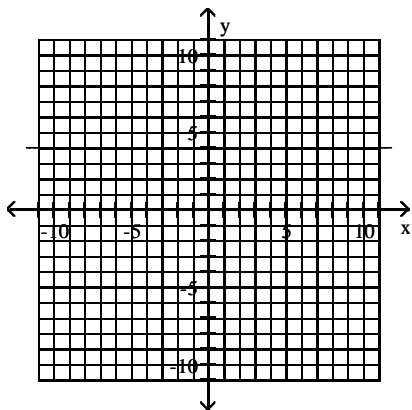
Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V01

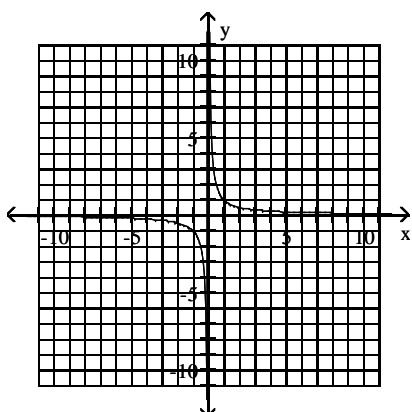
52)



53)



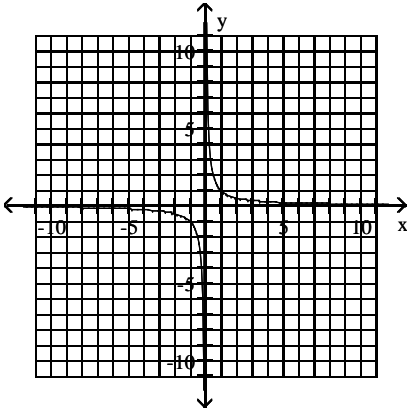
54)



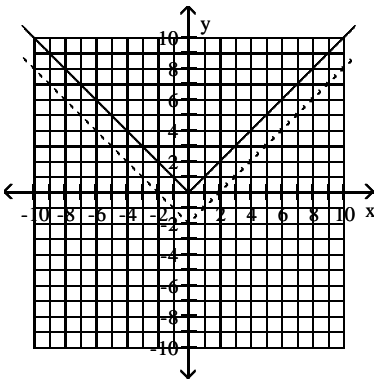
Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V01

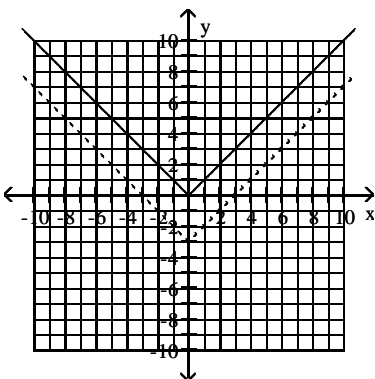
55)



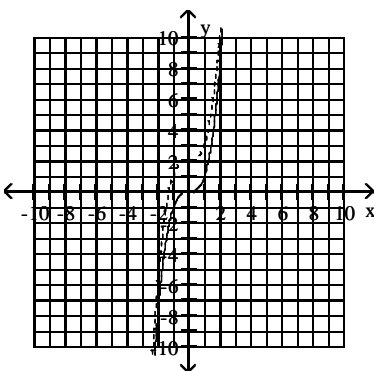
56)



57)



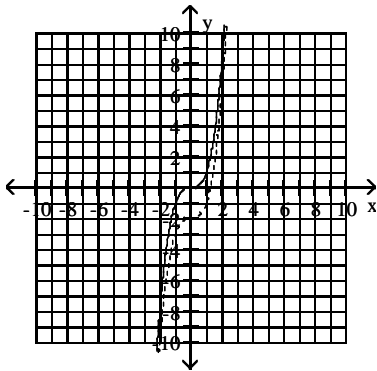
58)



# Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V01

59)



60) domain:  $\{6, 2, 8\}$   
 range:  $\{10, 2, 11, 14\}$   
 not a function

61) domain:  $\{2, 1, 8\}$   
 range:  $\{3, 9, 7, 5\}$   
 not a function

62) domain:  $\{-9, -7, 7, 9\}$   
 range:  $\{4, 8\}$   
 function

63) domain:  $\{-3, -2, 2, 3\}$   
 range:  $\{7, 9\}$   
 function

64) No

65) Yes

66)  $\{(-5, -6)\}$

67)  $\{(-2, 3)\}$

68)  $\{(8, 1)\}$

69)  $\{(-6, 2)\}$

70) domain: all real numbers; range:  $y \geq 5$

71) domain: all real numbers; range:  $y \geq -4$

72) domain: all real numbers; range:  $y \geq 4$

73) domain: all real numbers; range:  $y = 4$

74) domain: all real numbers; range: all real numbers

75) domain:  $x \geq 0$ ; range:  $y \geq 2$

76) domain: all real numbers; range:  $-4 \leq y \leq 4$

77) domain: all real numbers; range:  $0 \leq y \leq 4$

78)  $(3, \infty)$

79)  $(5, \infty)$

80)  $(-\infty, 4) \cup (4, \infty)$

81)  $(-\infty, -7) \cup (-7, \infty)$

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

83)  $(-\infty, -9) \cup (-9, \infty)$

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

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

86)  $(-\infty, -9) \cup (-9, 9) \cup (9, \infty)$

87)  $(-\infty, 3) \cup (3, 7) \cup (7, \infty)$

88) Function

89) Not a function



## Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V01

- 90) Function
- 91) -7
- 92) -38
- 93) 9
- 94) -1
- 95) 10
- 96) 7
- 97) 0.4
- 98) 1.25
- 99) 4
- 100) 5
- 101) 0.5
- 102) -22
- 103) -18
- 104) 14
- 105) -1
- 106)  $\frac{12}{5}$
- 107)  $\frac{2}{5}$
- 108)  $-\frac{3}{2}$
- 109)  $\frac{2}{17}$
- 110) undefined
- 111) undefined
- 112) 4
- 113) 4
- 114)  $\frac{1}{3}$
- 115)  $\frac{1}{3}$
- 116) 0
- 117) 0
- 118) Undefined
- 119) Undefined
- 120)  $\{(7, 8)\}$
- 121)  $\{(-2, -4)\}$
- 122)  $\{(-5, 5)\}$
- 123)  $\{(0, 5)\}$
- 124)  $\{(0, 2)\}$
- 125)  $\{(9, -1)\}$
- 126)  $\{(-1, 1)\}$
- 127) adult's ticket: \$14; child's ticket: \$7
- 128) adult's ticket: \$23; child's ticket: \$20
- 129) 10 hours
- 130) 11 hours
- 131) 10.8 mph
- 132) 3.6 mph

## Answer Key

Testname: EXAM1PREP CH 1, 2, 3.1&3.5V01

133) 34 miles

134) 16 miles

135) 100 bracelets and 20 necklaces

136) 40 bracelets and 80 necklaces