

Name _____

Find the indicated function value.

1) Find $f(-3)$ when $f(x) = x^2 - 2x + 5$.

1) _____

2) Find $f(-2)$ when $f(x) = 2x^2 + 3x + 2$.

2) _____

3) Find $f(-11)$ when $f(x) = 17x + 14$.

3) _____

4) Find $f(3)$ when $f(x) = 3$.

4) _____

5)

x	f(x)
-4	-2
-1	4
0	6
1	8
4	14

For what value of x is $f(x) = 6$?

5) _____

6)

x	f(x)
-4	2
-2	8
0	14
2	20
4	26

For what value of x is $f(x) = 14$?

6) _____

7) Find $f(0)$ when $f(x) = x^2 + 5x - 7$.

7) _____

8) Find $f(4)$ when $f(x) = \frac{x^2 + 2}{x^3 + 5x}$.

8) _____

9) Find $f(4)$ when $f(x) = \frac{x^3 + 8}{x^2 + 4}$.

9) _____

10) Find $g(a - 1)$ when $g(x) = 4x - 5$.

10) _____

11) Find $g(a - 1)$ when $g(x) = \frac{1}{5}x + 4$.

11) _____

12) Find $r(a - 3)$ when $r(x) = \frac{6}{x - 2}$.

12) _____

13)

x	$f(x)$
-2	2
-1	6
0	10
1	14
2	18

Find $f(-1)$

13) _____

14)

x	f(x)
-2	2
-1	6
0	10
1	14
2	18

For what value of x is $f(x) = 10$?

14) _____

15)

x	f(x)
-4	2
-3	5
0	14
3	23
4	26

For what value of x is $f(x) = 14$?

15) _____

For the given functions f and g, find the requested function and state its domain.

16) $f(x) = 7 - 5x$; $g(x) = -9x + 5$

Find $f + g$.

16) _____

17) $f(x) = 7 - 8x$; $g(x) = -3x + 8$

Find $f + g$.

17) _____

18) $f(x) = 3x - 7$; $g(x) = 8x - 2$

Find $f - g$.

18) _____

19) $f(x) = 4x - 9$; $g(x) = 8x - 5$

Find $f - g$.

19) _____

20) $f(x) = 8x - 7$; $g(x) = 4x + 3$

Find $f \cdot g$.

20) _____

21) $f(x) = 7x + 8$; $g(x) = 3x - 8$
Find $f \cdot g$.

21) _____

22) $f(x) = 3x + 4$; $g(x) = 3x - 1$
Find $\frac{f}{g}$.

22) _____

23) $f(x) = 5x + 1$; $g(x) = 3x - 4$
Find $\frac{f}{g}$.

23) _____

24) $f(x) = x - 3$; $g(x) = 4x^2$
Find $f - g$.

24) _____

25) $f(x) = x - 9$; $g(x) = 8x^2$
Find $f - g$.

25) _____

26) $f(x) = 3x^3 + 1$; $g(x) = 5x^2 + 1$
Find $f \cdot g$.

26) _____

27) $f(x) = 3x^3 - 1$; $g(x) = 5x^2 - 3$
Find $f \cdot g$.

27) _____

28) $f(x) = \sqrt{x}$; $g(x) = 2x - 9$
Find $\frac{f}{g}$.

28) _____

29) $f(x) = \sqrt{x}$; $g(x) = 3x - 4$

Find $\frac{f}{g}$.

29) _____

Find the indicated function.

30) Functions f and g are defined by the table. Find $f + g$.

x	f(x)	g(x)
-5	3	8
-2	1	-2
-1	-2	1
9	-5	5

30) _____

31) Functions f and g are defined by the table. Find $f + g$.

x	f(x)	g(x)
-8	-7	-1
-7	4	-7
-5	-7	4
8	4	3

31) _____

32) Functions f and g are defined by the table. Find $f + g$.

x	f(x)	g(x)
-1	5	2
5	5	-1
6	-1	5
9	5	5

32) _____

33) Functions f and g are defined by the table. Find $f + g$.

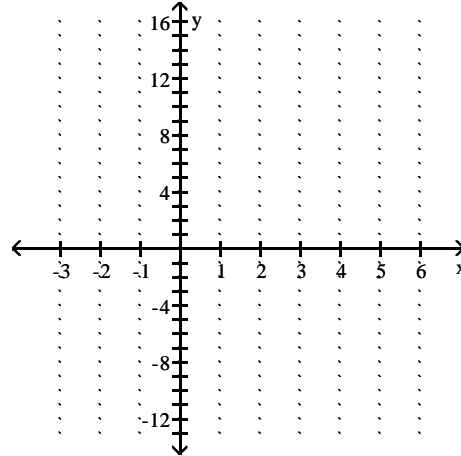
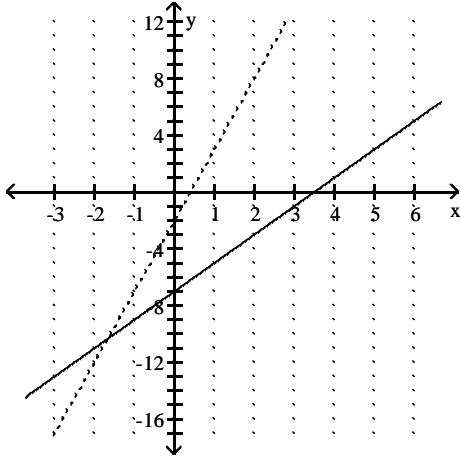
x	f(x)	g(x)
-5	-1	2
5	7	5
6	5	7
7	5	9

33) _____

The graph of f is the solid line and the graph of g is the dashed line in the figure. Graph the indicated function.

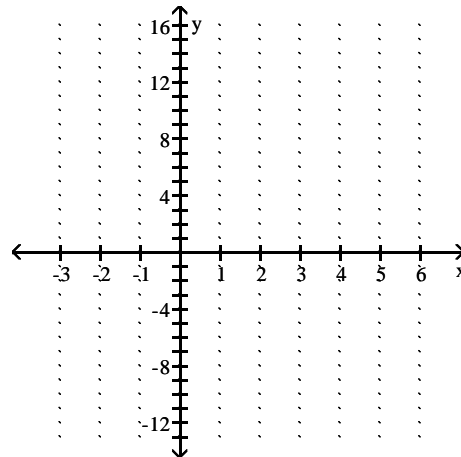
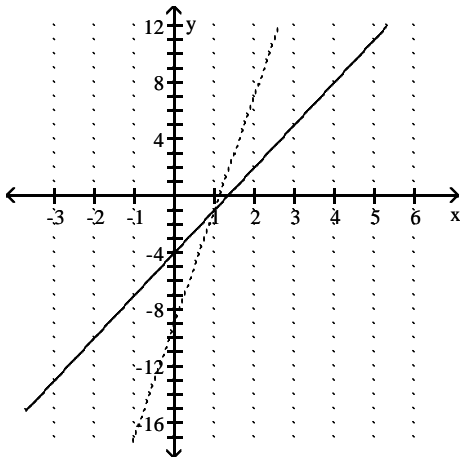
34) Graph $(f - g)(x)$.

34) _____

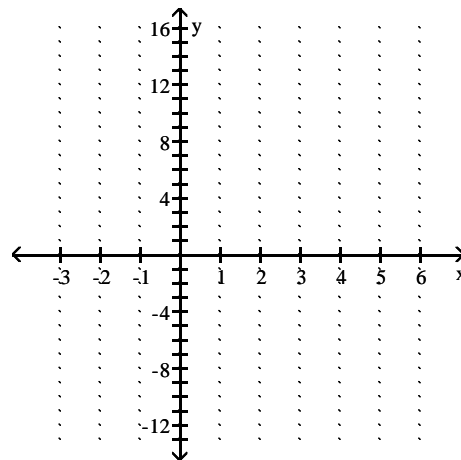
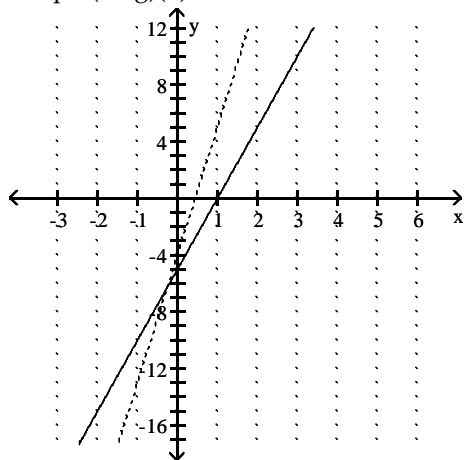


35) Graph $(f - g)(x)$.

35) _____



36) Graph $(f - g)(x)$.



36) _____

Find the composite function for the given functions and state the domain.

37) $f \circ g$ for $f(x) = 5x + 6$ and $g(x) = -6x + 3$

37) _____

38) $f \circ g$ for $f(x) = 3x + 8$ and $g(x) = -4x + 7$

38) _____

39) $f \circ g$ for $f(x) = 5x + 5$ and $g(x) = x^2 - 9$

39) _____

40) $f \circ g$ for $f(x) = 8x + 4$ and $g(x) = x^2 - 7$

40) _____

41) $f \circ g$ for $f(x) = \frac{7}{4}x$ and $g(x) = -\frac{4}{7}x$

41) _____

42) $f \circ g$ for $f(x) = \frac{3}{8}x$ and $g(x) = -\frac{8}{3}x$

42) _____

43) $f \circ g$ for $f(x) = \frac{7}{x-4}$ and $g(x) = \frac{2}{7x}$ 43) _____

44) $f \circ g$ for $f(x) = \frac{3}{x-8}$ and $g(x) = \frac{2}{3x}$ 44) _____

45) $g \circ f$ for $f(x) = \frac{x-9}{5}$ and $g(x) = 5x+9$ 45) _____

46) $g \circ f$ for $f(x) = \frac{x-5}{6}$ and $g(x) = 6x+5$ 46) _____

47) $f \circ g$ for $f(x) = \sqrt{x+3}$ and $g(x) = 8x-7$ 47) _____

48) $f \circ g$ for $f(x) = \sqrt{x+9}$ and $g(x) = 8x-13$ 48) _____

49) $g \circ f$ for $f(x) = 4x^2 + 6x + 5$ and $g(x) = 6x - 6$ 49) _____

50) $g \circ f$ for $f(x) = 4x^2 + 5x + 3$ and $g(x) = 5x - 7$ 50) _____

51) $g \circ f$ for $f(x) = \frac{7}{x}$ and $g(x) = 3x^6$ 51) _____

52) $g \circ f$ for $f(x) = \frac{4}{x}$ and $g(x) = 3x^4$ 52) _____

53) $g \circ f$ for $f(x) = x^3 + 5$ and $g(x) = \sqrt[3]{x-5}$ 53) _____

54) $g \circ f$ for $f(x) = x^5 + 8$ and $g(x) = \sqrt[5]{x-8}$ 54) _____

55) $f \circ g \circ h$ for $f(x) = \sqrt{x}$, $g(x) = \frac{x}{4}$, and $h(x) = 4x + 8$ 55) _____

56) $f \circ g \circ h$ for $f(x) = \sqrt{x}$, $g(x) = \frac{x}{5}$, and $h(x) = 5x + 20$ 56) _____

57) $h \circ g \circ f$ for $f(x) = \sqrt{x}$, $g(x) = \frac{x}{3}$, and $h(x) = 3x + 9$ 57) _____

58) $h \circ g \circ f$ for $f(x) = \sqrt{x}$, $g(x) = \frac{x}{5}$, and $h(x) = 5x + 10$ 58) _____

59) $h \circ g \circ f$ for $f(x) = \sqrt{x}$, $g(x) = \frac{x}{2}$, and $h(x) = 2x + 6$ 59) _____

Find the domain of the composite function $f \circ g$.

60) $f(x) = 5x + 30$, $g(x) = x + 4$

60) _____

61) $f(x) = \frac{2}{x+9}$, $g(x) = \frac{54}{x}$

61) _____

62) $f(x) = 6x + 42$, $g(x) = x + 2$

62) _____

63) $f(x) = \frac{2}{x+8}$, $g(x) = \frac{32}{x}$

63) _____

64) $f(x) = 3x + 9$; $g(x) = \sqrt{x}$

64) _____

65) $f(x) = 5x + 25$; $g(x) = \sqrt{x}$

65) _____

66) $f(x) = \frac{8}{x+5}$, $g(x) = \frac{20}{x}$

66) _____

67) $f(x) = 9x + 81$, $g(x) = x + 7$

67) _____

68) $f(x) = 2x + 6$; $g(x) = \sqrt{x}$

68) _____

Find $f(x)$ and $g(x)$ such that $h(x) = (f \circ g)(x)$.

$$69) h(x) = \frac{1}{x^2 - 7}$$

69) _____

$$70) h(x) = \frac{1}{x^2 - 6}$$

70) _____

$$71) h(x) = \frac{5}{x^2} + 3$$

71) _____

$$72) h(x) = \frac{5}{x^2} + 1$$

72) _____

$$73) h(x) = \frac{10}{\sqrt{10x + 8}}$$

73) _____

$$74) h(x) = \frac{3}{\sqrt{5x + 4}}$$

74) _____

$$75) h(x) = (-4x - 15)^5$$

75) _____

$$76) h(x) = (7x + 8)^3$$

76) _____

$$77) h(x) = \sqrt{14x^2 + 53}$$

77) _____

$$78) h(x) = \sqrt{41x^2 + 35}$$

78) _____

Solve the problem.

79) At Allied Electronics, production has begun on the X-15 Computer Chip. The total revenue function is given by $R(x) = 43x - 0.3x^2$ and the total profit function is given by $P(x) = -0.3x^2 + 39x - 10$, where x represents the number of boxes of computer chips produced. The total cost function, $C(x)$, is such that $C(x) = R(x) - P(x)$. Find $C(x)$.

79) _____

80) At Allied Electronics, production has begun on the X-15 Computer Chip. The total revenue function is given by $R(x) = 54x - 0.3x^2$ and the total profit function is given by $P(x) = -0.3x^2 + 50x - 10$, where x represents the number of boxes of computer chips produced. The total cost function, $C(x)$, is such that $C(x) = R(x) - P(x)$. Find $C(x)$.

80) _____

81) At Allied Electronics, production has begun on the X-15 Computer Chip. The total cost function is given by $C(x) = 11x + 9$ and the total profit function is given by $P(x) = -0.3x^2 + 33x - 9$, where x represents the number of boxes of computer chips produced. The total revenue function, $R(x)$, is such that $R(x) = C(x) + P(x)$. Find $R(x)$.

81) _____

82) At Allied Electronics, production has begun on the X-15 Computer Chip. The total cost function is given by $C(x) = 12x + 15$ and the total profit function is given by $P(x) = -0.3x^2 + 34x - 15$, where x represents the number of boxes of computer chips produced. The total revenue function, $R(x)$, is such that $R(x) = C(x) + P(x)$. Find $R(x)$.

82) _____

83) A stone is thrown into a pond. A circular ripple is spreading over the pond in such a way that the radius is increasing at the rate of 4.1 feet per second. Find a function, $r(t)$, for the radius in terms of t . Find a function, $A(r)$, for the area of the ripple in terms of r . Find $(A \circ r)(t)$.

83) _____

84) A stone is thrown into a pond. A circular ripple is spreading over the pond in such a way that the radius is increasing at the rate of 6.7 feet per second. Find a function, $r(t)$, for the radius in terms of t . Find a function, $A(r)$, for the area of the ripple in terms of r . Find $(A \circ r)(t)$.

84) _____

Determine analytically (without using a graph) whether the function is one-to-one.

85) $f(x) = \frac{8}{\sqrt{x+4}}$

85) _____

86) $f(x) = \frac{6}{\sqrt{x+2}}$

86) _____

87) $f(x) = \frac{7}{\sqrt{x+2}}$

87) _____

88) $f(x) = -7x + 1$

88) _____

89) $f(x) = -6x - 9$

89) _____

90) $f(x) = -6x + 4$

90) _____

91) $f(x) = 0.5x^2 - 3x + 6$

91) _____

92) $f(x) = 0.2x^2 + 2x + 5$

92) _____

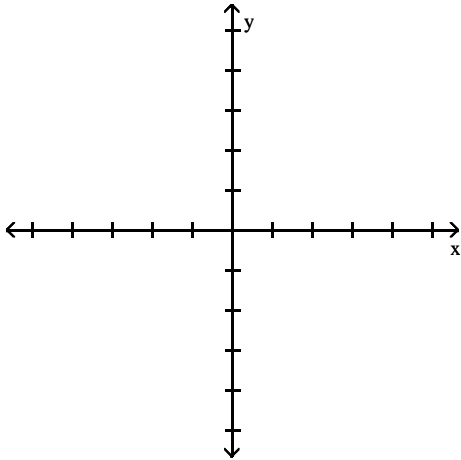
93) $f(x) = -0.4x^2 - 2x + 2$

93) _____

Determine whether the function is one-to-one by graphing and using the horizontal line test.

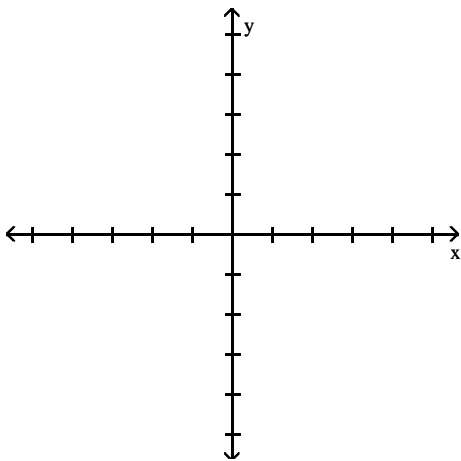
94) $f(x) = 5x^2 + 7$

94) _____

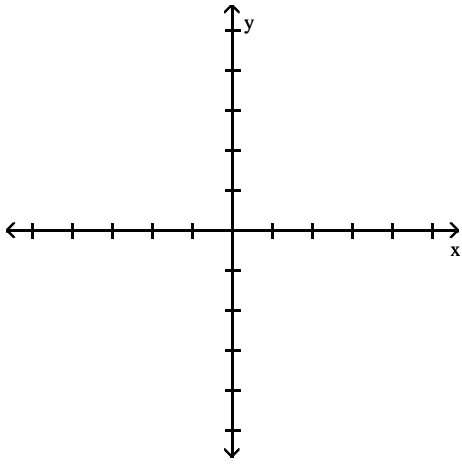


95) $f(x) = 2x^2 - 8$

95) _____

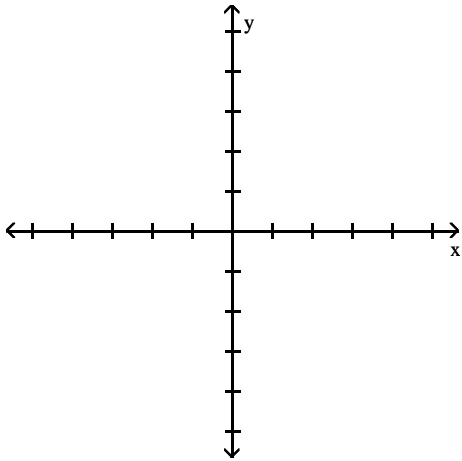


96) $f(x) = -x^3 - 2$



96) _____

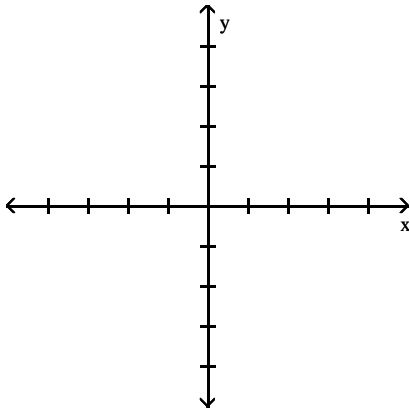
97) $f(x) = -x^3 + 5$



97) _____

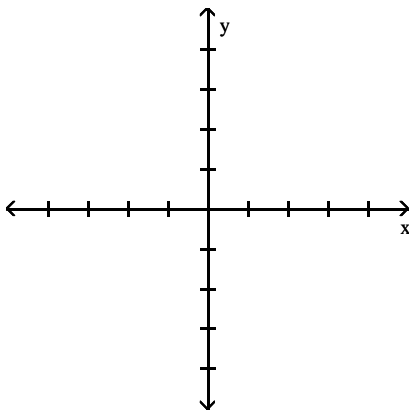
98) $f(x) = x^3 - 3x + 3$

98) _____



99) $f(x) = x^3 - 4x + 1$

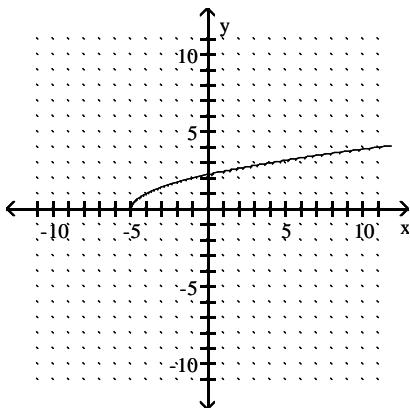
99) _____



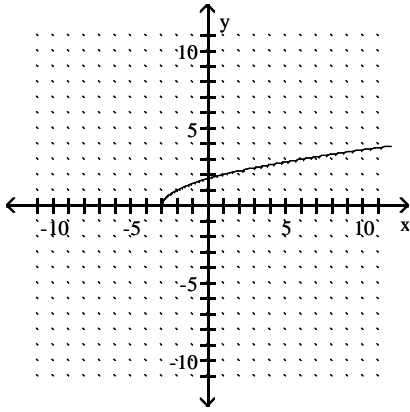
The graph of a function f is given. On the same axes, sketch the graph of f^{-1} and find the domain and range of the inverse of f .

100)

100) _____

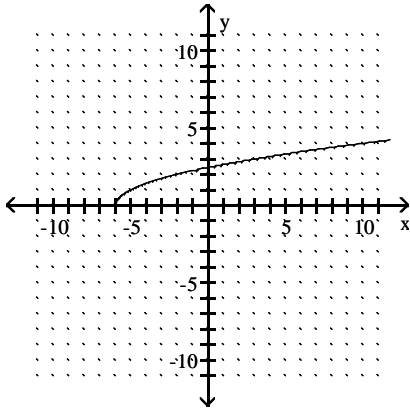


101)



101) _____

102)



102) _____

Find the inverse of the function.

103) $f(x) = 7x - 21$

103) _____

104) $f(x) = 5x - 30$

104) _____

105) $f(x) = \frac{9}{x+2}$

105) _____

$$106) f(x) = \frac{8}{x+6}$$

106) _____

$$107) f(x) = \sqrt{x+4}$$

107) _____

$$108) f(x) = \sqrt{x+6}$$

108) _____

$$109) f(x) = 6x^2 - 9, x \geq 0$$

109) _____

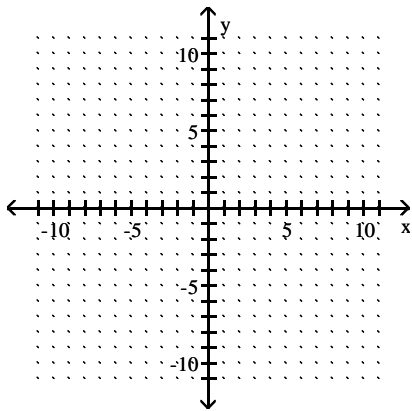
$$110) f(x) = 5x^2 - 9, x \geq 0$$

110) _____

Sketch the graph of the function and its inverse on the same coordinate axes.

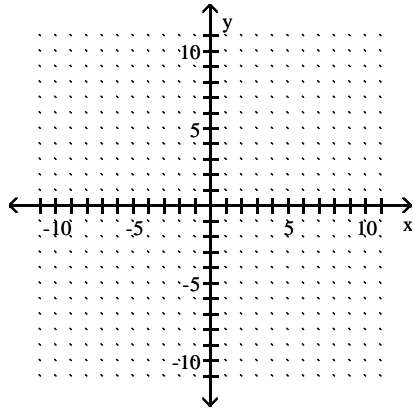
$$111) f(x) = \frac{3}{2}x + 2$$

111) _____



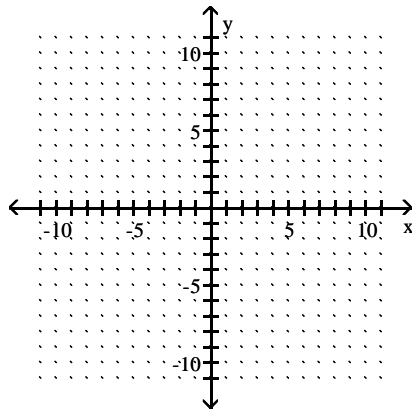
112) $f(x) = \frac{4}{3}x + 5$

112) _____



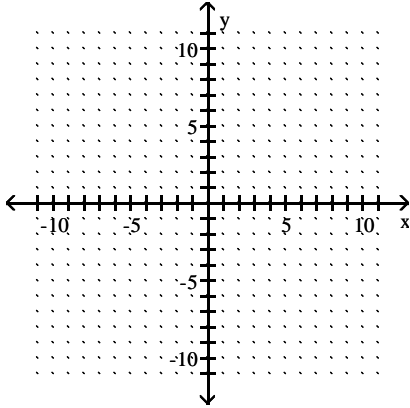
113) $y = \sqrt{x - 2}$

113) _____



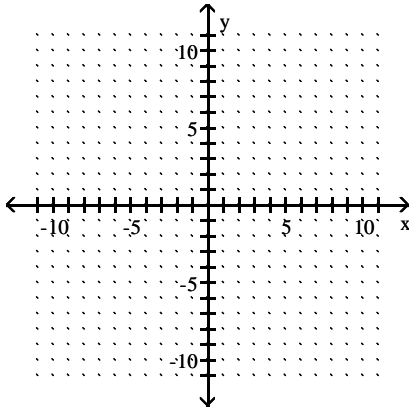
114) $y = \sqrt{x - 4}$

114) _____



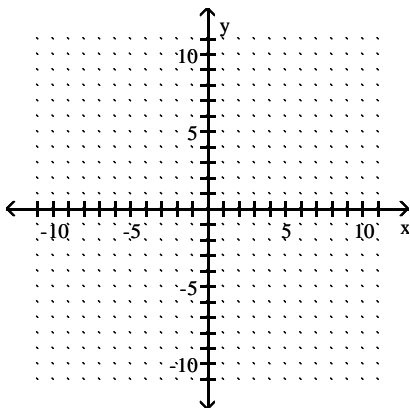
115) $y = x^3 + 1$

115) _____



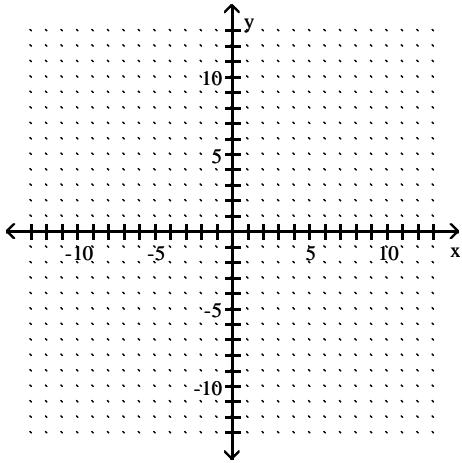
116) $y = x^3 + 5$

116) _____



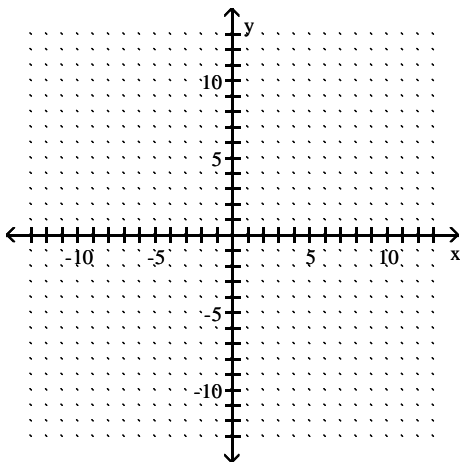
117) $f(x) = \frac{7}{x-5}$

117) _____



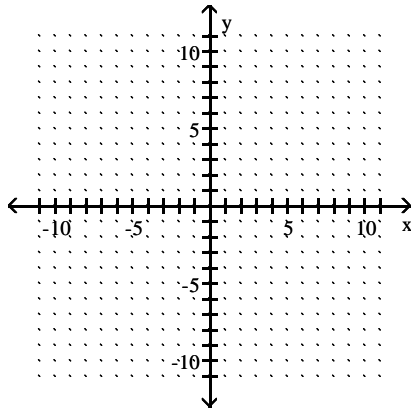
118) $f(x) = \frac{3}{x+2}$

118) _____



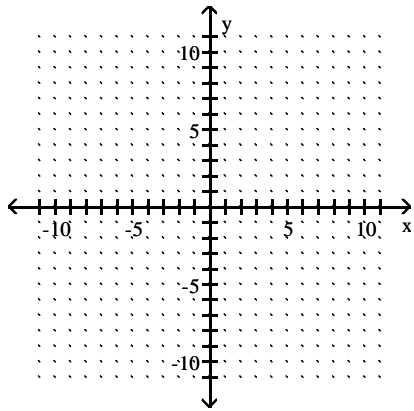
119) $f(x) = 1 - x^2$ for $x \leq 0$

119) _____



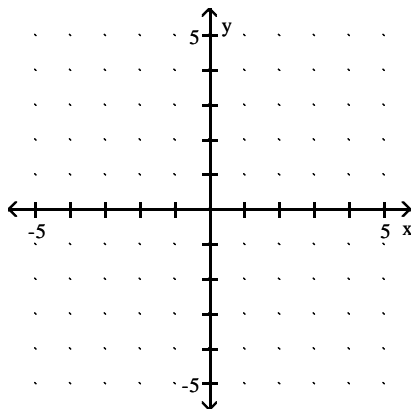
120) $f(x) = 4 - x^2$ for $x \leq 0$

120) _____



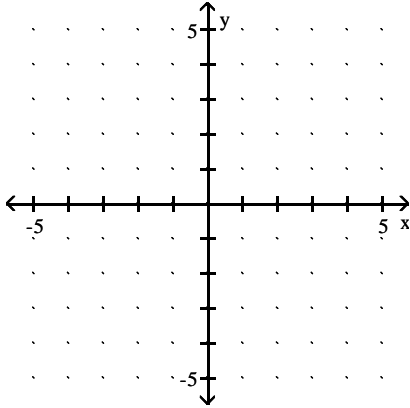
121) $f(x) = 4^x$

121) _____



122) $f(x) = 5^x$

122) _____



Solve the problem.

123) A size 40 dress in Country C is size 4 in Country D. A function that converts dress sizes in Country C to those in Country D is $f(x) = \frac{x}{2} - 16$. Find the inverse of the function. 123) _____

124) A size 38 dress in Country C is size -1 in Country D. A function that converts dress sizes in Country C to those in Country D is $f(x) = \frac{x}{2} - 20$. Find the inverse of the function. 124) _____

125) A size 2 dress in Country C is size 28 in Country D. A function that converts dress sizes in Country C to those in Country D is $f(x) = 2(x + 12)$. Find the inverse of the function. 125) _____

126) A size 4 dress in Country C is size 32 in Country D. A function that converts dress sizes in Country C to those in Country D is $f(x) = 2(x + 12)$. Find the inverse of the function. 126) _____

127) 32° Fahrenheit = 0° Celsius. A function that converts temperatures in Fahrenheit to those in Celsius is $f(x) = \frac{5}{9}(x - 32)$. Find the inverse of the function. 127) _____

128) 32° Fahrenheit = 0° Celsius. A function that converts temperatures in Celsius to those in Fahrenheit is $f(x) = \frac{9}{5}x + 32$. Find the inverse of the function. 128) _____

129) An organization determines that the cost per person of chartering a bus is given by the formula 129) _____

$$C(x) = \frac{200 + 7x}{x},$$

where x is the number of people in the group and $C(x)$ is in dollars. Find the inverse of the function.

130) An organization determines that the cost per person of chartering a bus is given by the formula 130) _____

$$C(x) = \frac{200 + 6x}{x},$$

where x is the number of people in the group and $C(x)$ is in dollars. Find the inverse of the function.

131) Let $f(x)$ compute the time in hours to travel x miles at 21 miles per hour. What does $f^{-1}(x)$ compute? 131) _____

132) Let $f(x)$ compute the time in hours to travel x miles at 51 miles per hour. What does $f^{-1}(x)$ compute? 132) _____

133) Let $f(x)$ compute the cost of a rental car after x days of use at \$46 per day. What does $f^{-1}(x)$ compute? 133) _____

134) Let $f(x)$ compute the cost of a rental car after x days of use at \$26 per day. What does $f^{-1}(x)$ compute? 134) _____

135) To remodel a bathroom, a contractor charges \$25 per hour plus material costs, which amount to \$4000. Therefore, the total cost to remodel the bathroom is given by $f(x) = 25x + 4000$ where x is the number of hours the contractor works. Find $f^{-1}(x)$. What does $f^{-1}(x)$ compute?

135) _____

136) To remodel a bathroom, a contractor charges \$30 per hour plus material costs, which amount to \$4260. Therefore, the total cost to remodel the bathroom is given by $f(x) = 30x + 4260$ where x is the number of hours the contractor works. Find $f^{-1}(x)$. What does $f^{-1}(x)$ compute?

136) _____

Answer Key

Testname: E3PREP_PART3_3.6TO3.7_V01

1) 20

2) 4

3) -173

4) 3

5) 0

6) 0

7) -7

8) $\frac{3}{14}$

9) $\frac{18}{5}$

10) $4a - 9$

11) $\frac{a + 19}{5}$

12) $\frac{6}{a - 5}$

13) 6

14) 0

15) 0

16) $(f + g)(x) = -14x + 12; (-\infty, \infty)$

17) $(f + g)(x) = -11x + 15; (-\infty, \infty)$

18) $(f - g)(x) = -5x - 5; (-\infty, \infty)$

19) $(f - g)(x) = -4x - 4; (-\infty, \infty)$

20) $(f \cdot g)(x) = 32x^2 - 4x - 21; (-\infty, \infty)$

21) $(f \cdot g)(x) = 21x^2 - 32x - 64; (-\infty, \infty)$

22) $\left(\frac{f}{g}\right)(x) = \frac{3x + 4}{3x - 1}; \left(-\infty, \frac{1}{3}\right) \text{ or } \left(\frac{1}{3}, \infty\right)$

23) $\left(\frac{f}{g}\right)(x) = \frac{5x + 1}{3x - 4}; \left(-\infty, \frac{4}{3}\right) \text{ or } \left(\frac{4}{3}, \infty\right)$

24) $(f - g)(x) = -4x^2 + x - 3; (-\infty, \infty)$

25) $(f - g)(x) = -8x^2 + x - 9; (-\infty, \infty)$

26) $(f \cdot g)(x) = 15x^5 + 3x^3 + 5x^2 + 1; (-\infty, \infty)$

27) $(f \cdot g)(x) = 15x^5 - 9x^3 - 5x^2 + 3; (-\infty, \infty)$

28) $\left(\frac{f}{g}\right)(x) = \frac{\sqrt{x}}{2x - 9}; \left[0, \frac{9}{2}\right) \text{ or } \left(\frac{9}{2}, \infty\right)$

29) $\left(\frac{f}{g}\right)(x) = \frac{\sqrt{x}}{3x - 4}; \left[0, \frac{4}{3}\right) \text{ or } \left(\frac{4}{3}, \infty\right)$

30)

x	(f+g)(x)
-5	11
-2	-1
-1	-1
9	0

Answer Key

Testname: E3PREP_PART3_3.6TO3.7_V01

31)

x	$(f+g)(x)$
-8	-8
-7	-3
-5	-3
8	7

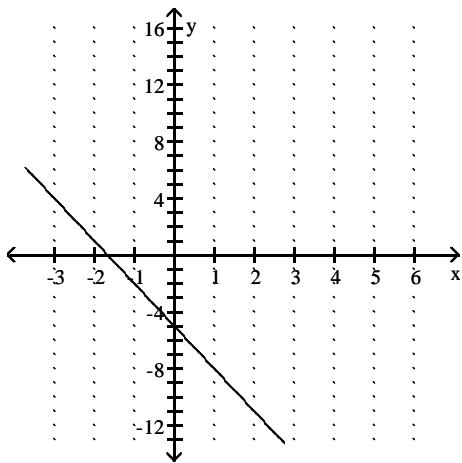
32)

x	$(f+g)(x)$
-1	7
5	4
6	4
9	10

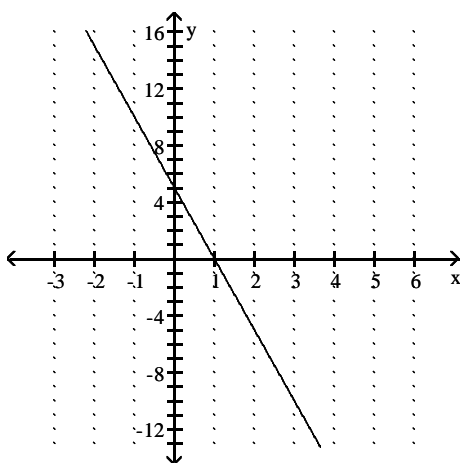
33)

x	$(f+g)(x)$
-5	1
5	12
6	12
7	14

34)



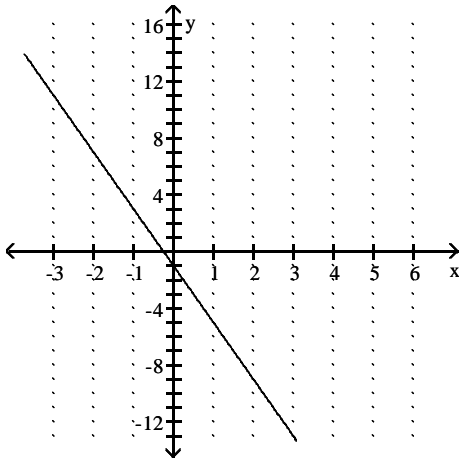
35)



Answer Key

Testname: E3PREP_PART3_3.6TO3.7_V01

36)



37) $-30x + 21$

38) $-12x + 29$

39) $5x^2 - 40$

40) $8x^2 - 52$

41) $-x$

42) $-x$

43) $\frac{49x}{2 - 28x}$

44) $\frac{9x}{2 - 24x}$

45) x

46) x

47) $2\sqrt{2x - 1}$

48) $2\sqrt{2x - 1}$

49) $24x^2 + 36x + 24$

50) $20x^2 + 25x + 8$

51) $\frac{352,947}{x^6}$

52) $\frac{768}{x^4}$

53) x

54) x

55) $\sqrt{x + 2}$

56) $\sqrt{x + 4}$

57) $\sqrt{x} + 9$

58) $\sqrt{x} + 10$

59) $\sqrt{x} + 6$

60) $(-\infty, \infty)$

61) $(-\infty, -6)$ or $(-6, 0)$ or $(0, \infty)$

62) $(-\infty, \infty)$

63) $(-\infty, -4)$ or $(-4, 0)$ or $(0, \infty)$

64) $[0, \infty)$

65) $[0, \infty)$

Answer Key

Testname: E3PREP_PART3_3.6TO3.7_V01

66) $(-\infty, -4)$ or $(-4, 0)$ or $(0, \infty)$

67) $(-\infty, \infty)$

68) $[0, \infty)$

69) $f(x) = \frac{1}{x}$, $g(x) = x^2 - 7$

70) $f(x) = \frac{1}{x}$, $g(x) = x^2 - 6$

71) $f(x) = x + 3$, $g(x) = \frac{5}{x^2}$

72) $f(x) = x + 1$, $g(x) = \frac{5}{x^2}$

73) $f(x) = \frac{10}{\sqrt{x}}$, $g(x) = 10x + 8$

74) $f(x) = \frac{3}{\sqrt{x}}$, $g(x) = 5x + 4$

75) $f(x) = x^5$, $g(x) = -4x - 15$

76) $f(x) = x^3$, $g(x) = 7x + 8$

77) $f(x) = \sqrt{x}$, $g(x) = 14x^2 + 53$

78) $f(x) = \sqrt{x}$, $g(x) = 41x^2 + 35$

79) $C(x) = 4x + 10$

80) $C(x) = 4x + 10$

81) $R(x) = 44x - 0.3x^2$

82) $R(x) = 46x - 0.3x^2$

83) $(A \circ r)(t) = 16.81\pi t^2$

84) $(A \circ r)(t) = 44.89\pi t^2$

85) one-to-one

86) one-to-one

87) one-to-one

88) one-to-one

89) one-to-one

90) one-to-one

91) not one-to-one

92) not one-to-one

93) not one-to-one

94) No

95) No

96) Yes

97) Yes

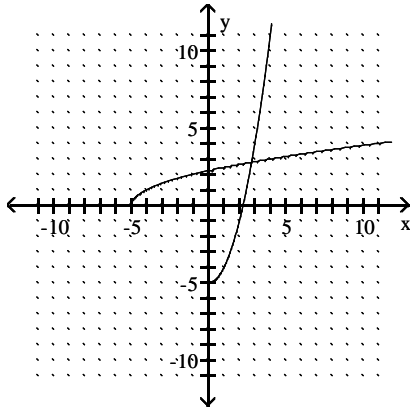
98) No

99) No

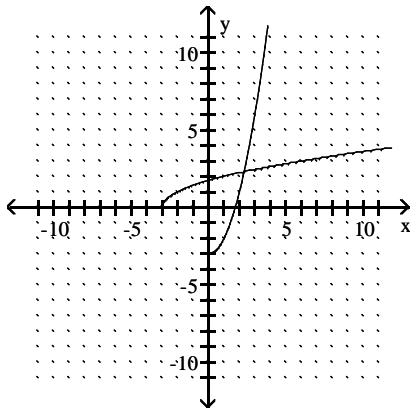
Answer Key

Testname: E3PREP_PART3_3.6TO3.7_V01

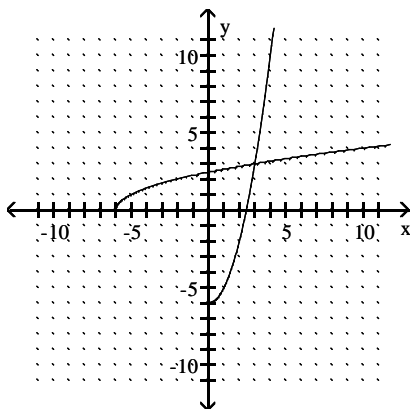
100) domain of f^{-1} : $[0, \infty)$; range of f^{-1} : $[-5, \infty)$



101) domain of f^{-1} : $[0, \infty)$; range of f^{-1} : $[-3, \infty)$



102) domain of f^{-1} : $[0, \infty)$; range of f^{-1} : $[-6, \infty)$



103) $f^{-1}(x) = \frac{1}{7}x + 3$

104) $f^{-1}(x) = \frac{1}{5}x + 6$

105) $f^{-1}(x) = \frac{-2x + 9}{x}$

106) $f^{-1}(x) = \frac{-6x + 8}{x}$

107) $f^{-1}(x) = x^2 - 4, x \geq 0$

Answer Key

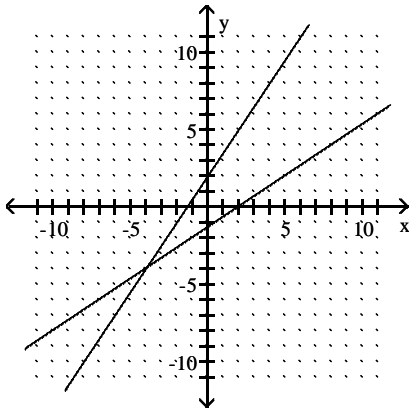
Testname: E3PREP_PART3_3.6TO3.7_V01

108) $f^{-1}(x) = x^2 - 6, x \geq 0$

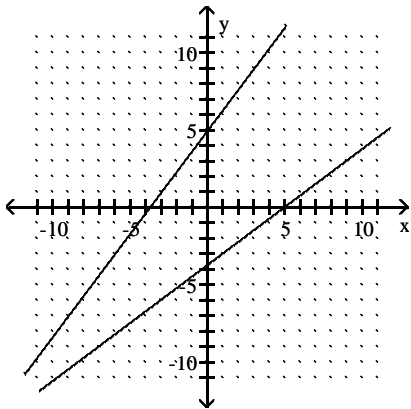
109) $f^{-1}(x) = \sqrt{\frac{x+9}{6}}$

110) $f^{-1}(x) = \sqrt{\frac{x+9}{5}}$

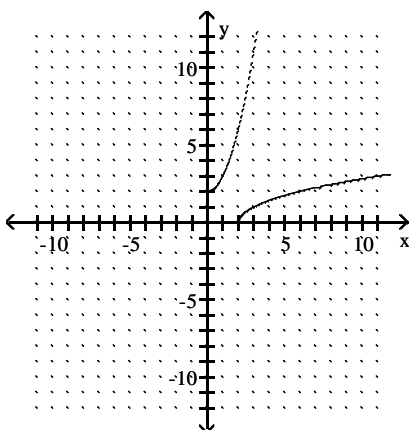
111)



112)



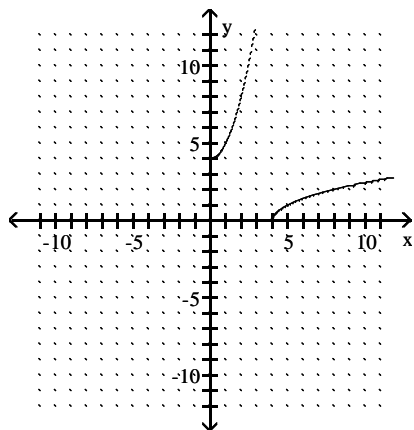
113)



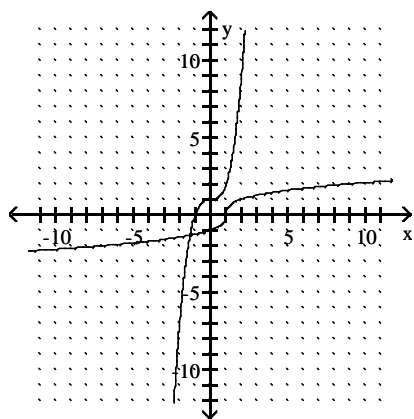
Answer Key

Testname: E3PREP_PART3_3.6TO3.7_V01

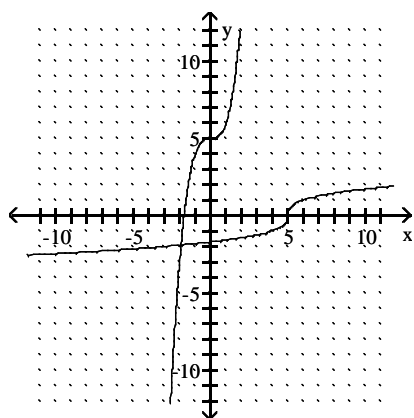
114)



115)



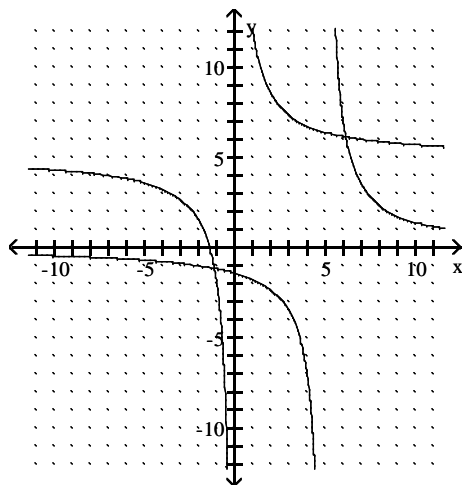
116)



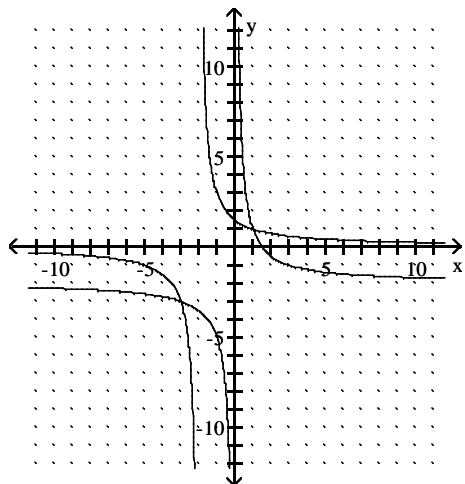
Answer Key

Testname: E3PREP_PART3_3.6TO3.7_V01

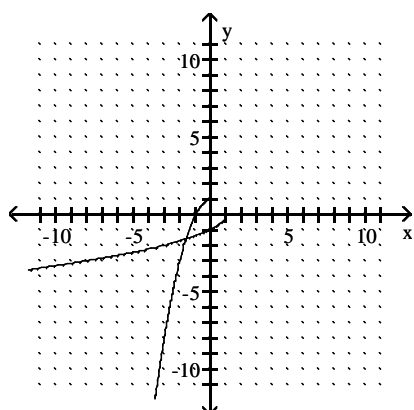
117)



118)



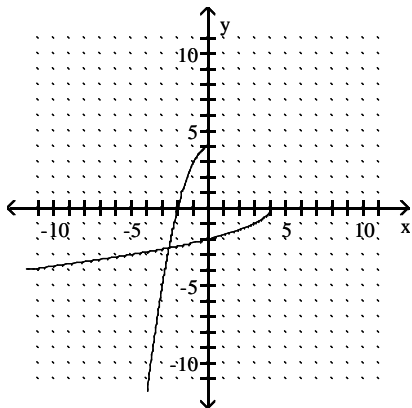
119)



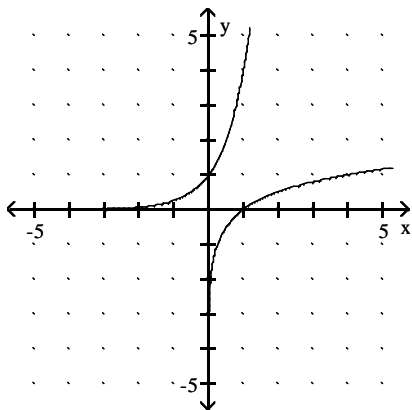
Answer Key

Testname: E3PREP_PART3_3.6TO3.7_V01

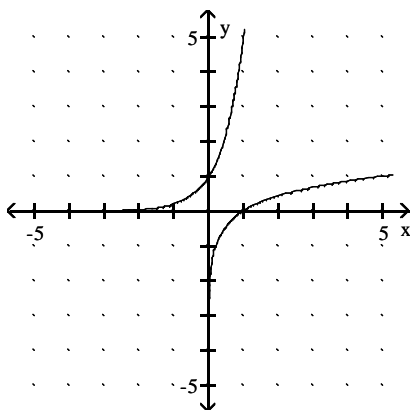
120)



121)



122)



123) $f^{-1}(x) = 2(x + 16)$

124) $f^{-1}(x) = 2(x + 20)$

125) $f^{-1}(x) = \frac{x}{2} - 12$

126) $f^{-1}(x) = \frac{x}{2} - 12$

127) $f^{-1}(x) = \frac{9}{5}x + 32$

128) $f^{-1}(x) = \frac{5}{9}(x - 32)$

Answer Key

Testname: E3PREP_PART3_3.6TO3.7_V01

129) $C^{-1}(x) = \frac{200}{x - 7}$

130) $C^{-1}(x) = \frac{200}{x - 6}$

131) The miles traveled in x hours

132) The miles traveled in x hours

133) The number of days rented for x dollars

134) The number of days rented for x dollars

135) $f^{-1}(x) = \frac{x}{25} - 160$; This computes the number of hours worked if the total cost is x dollars.

136) $f^{-1}(x) = \frac{x}{30} - 142$; This computes the number of hours worked if the total cost is x dollars.