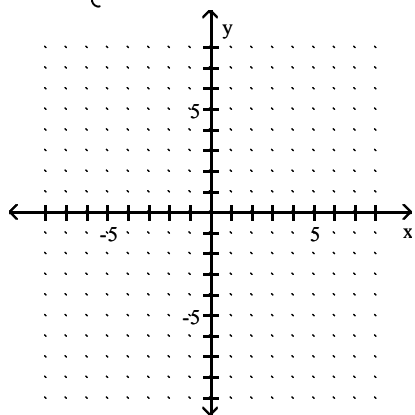


SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Graph the piecewise defined function.

1)

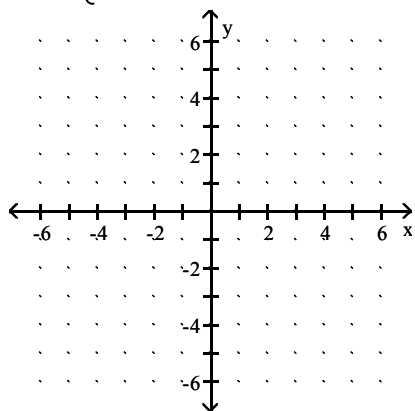
$$f(x) = \begin{cases} x - 5 & \text{if } x < 1 \\ 1 & \text{if } x \geq 1 \end{cases}$$



1) _____

2)

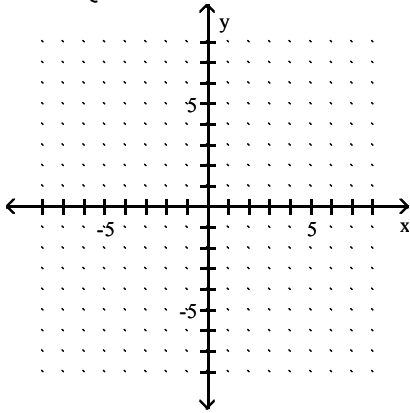
$$f(x) = \begin{cases} 2 & \text{if } x \leq -1 \\ -1 + x & \text{if } x > -1 \end{cases}$$



2) _____

3)

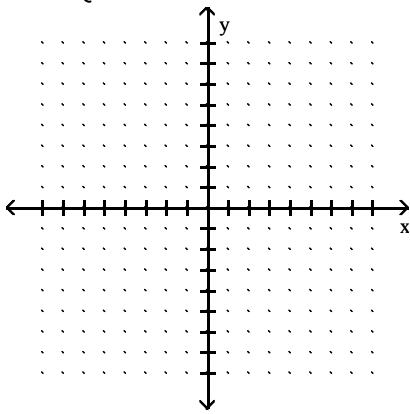
$$f(x) = \begin{cases} 4x + 2 & \text{if } x \leq 0 \\ \frac{1}{2}x - 4 & \text{if } x > 0 \end{cases}$$



3) _____

4)

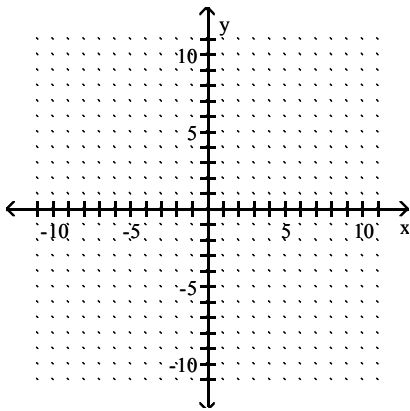
$$f(x) = \begin{cases} -2x + 5 & \text{if } x < 0 \\ 5x - 1 & \text{if } x \geq 0 \end{cases}$$



4) _____

5)

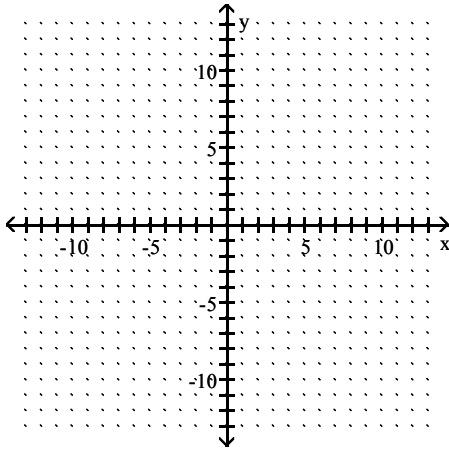
$$f(x) = \begin{cases} 1 & \text{if } x < -1 \\ -5 & \text{if } x \geq -1 \end{cases}$$



5) _____

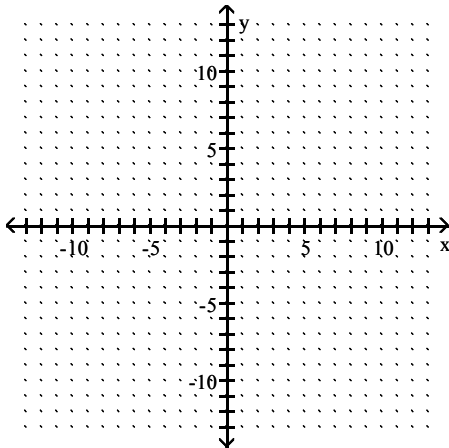
Graph the function.

6) $f(x) = |x| + 4$



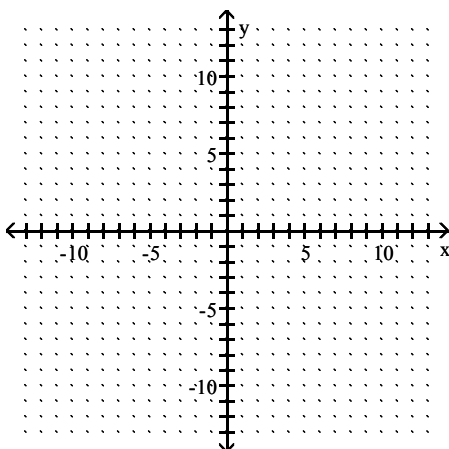
6) _____

7) $f(x) = x^2 + 3$



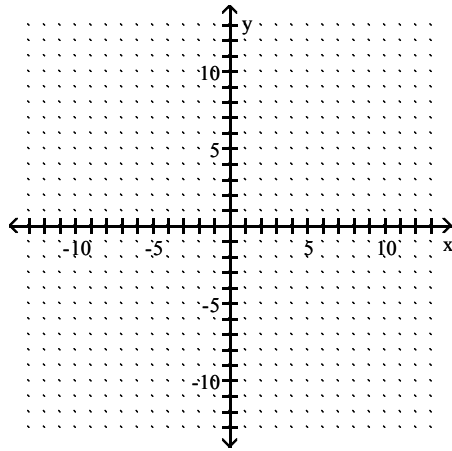
7) _____

8) $f(x) = \sqrt{x} + 3$



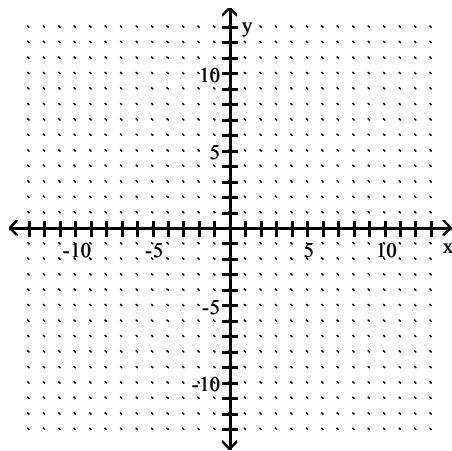
8) _____

9) $f(x) = |x - 3|$



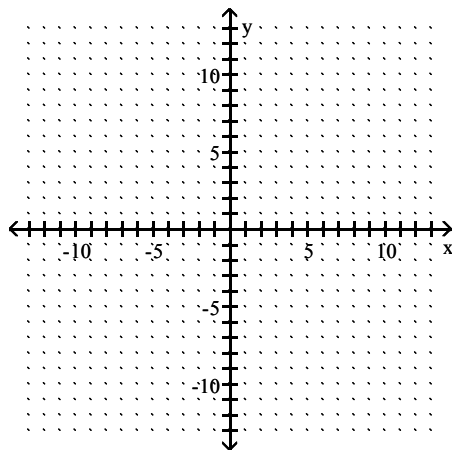
9) _____

10) $f(x) = (x + 4)^2$



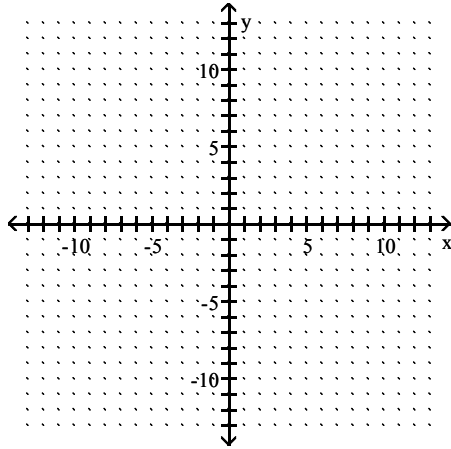
10) _____

11) $f(x) = \sqrt{x - 5}$



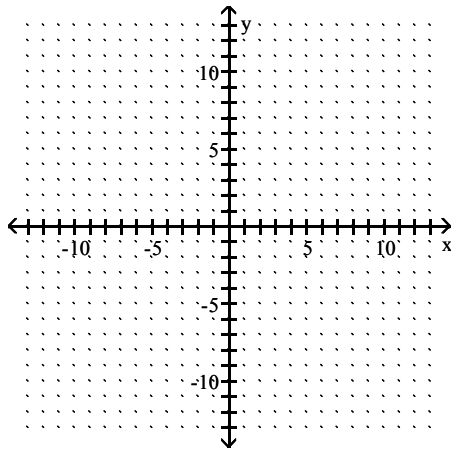
11) _____

12) $f(x) = |x + 6| + 4$



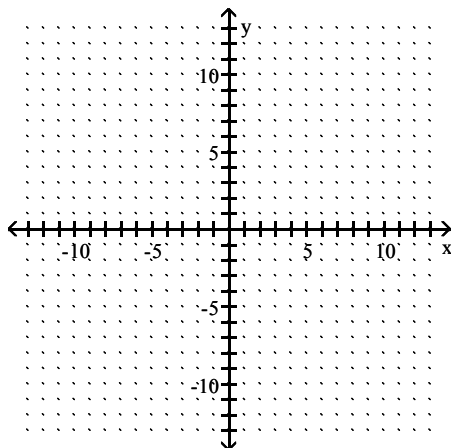
12) _____

13) $f(x) = (x - 2)^2 + 6$



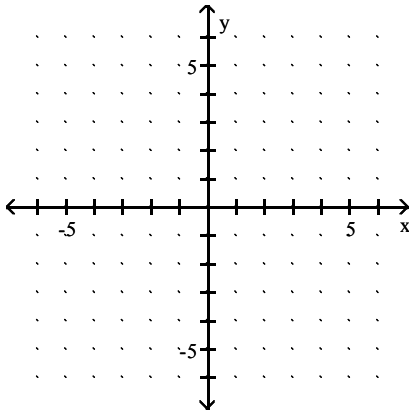
13) _____

14) $f(x) = \sqrt{x - 3} + 7$



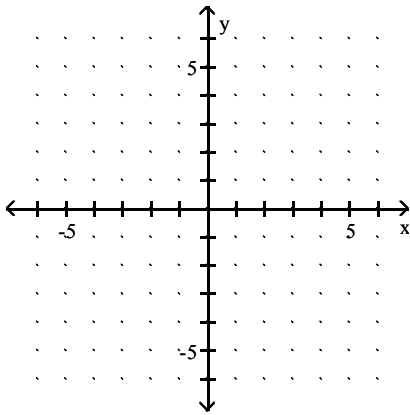
14) _____

15) $f(x) = -|x|$



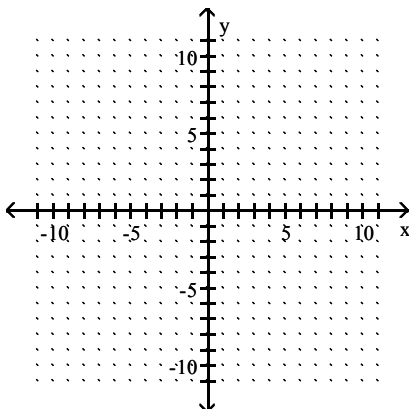
15) _____

16) $f(x) = -x^2$



16) _____

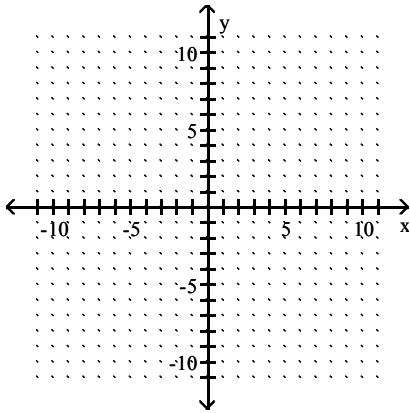
17) $f(x) = -|x - 3|$



17) _____

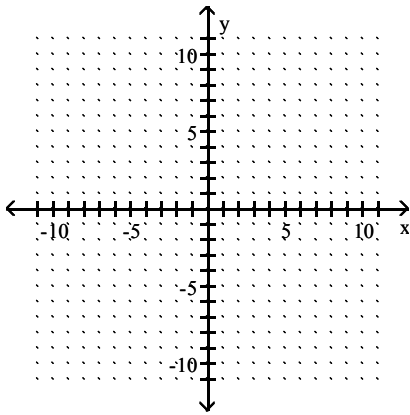
18) $f(x) = -(x + 1)^2$

18) _____



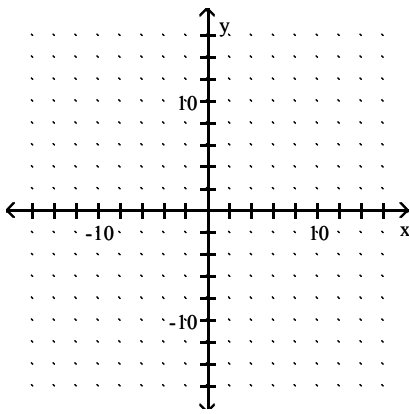
19) $f(x) = -\sqrt{x + 4}$

19) _____

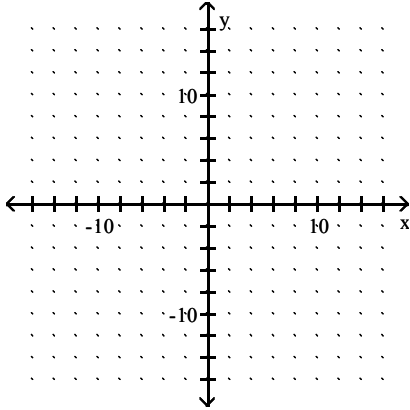


20) $f(x) = -\sqrt{x - 4} - 3$

20) _____

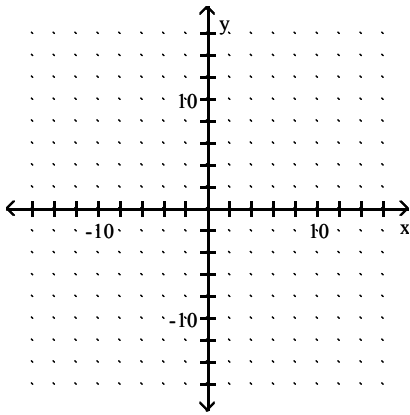


21) $f(x) = -(x + 7)^2 - 5$



21) _____

22) $f(x) = -|x - 6| + 3$

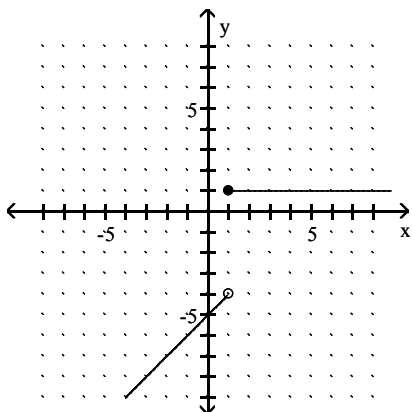


22) _____

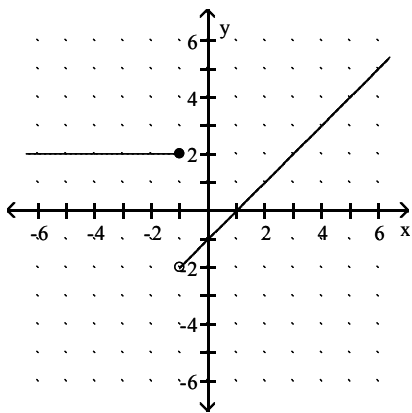
Answer Key

Testname: PRACTICE FOR THE EXAM (3.6)

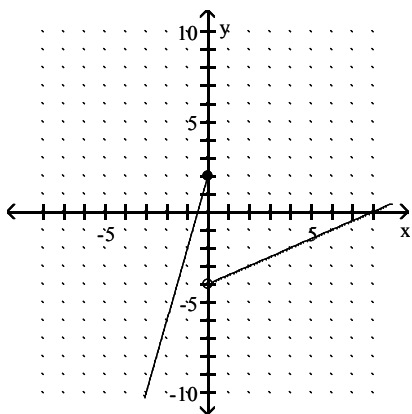
1)



2)



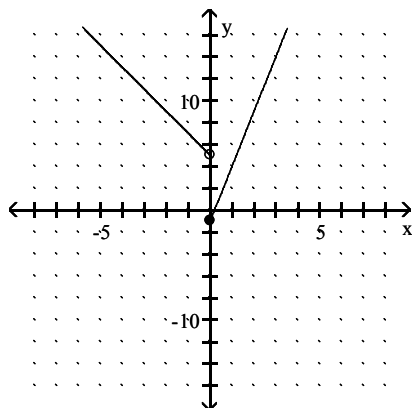
3)



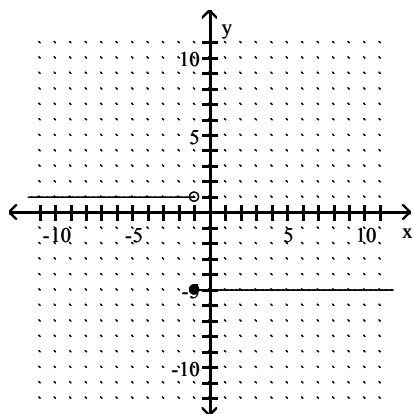
Answer Key

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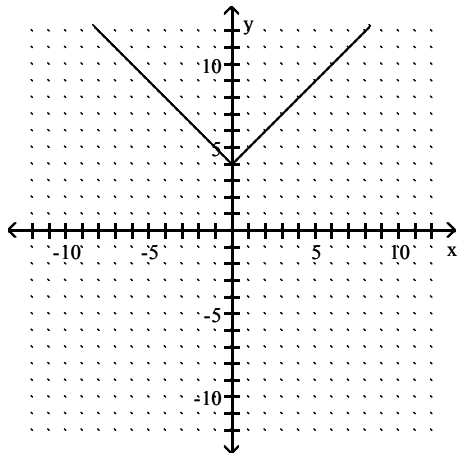
4)



5)



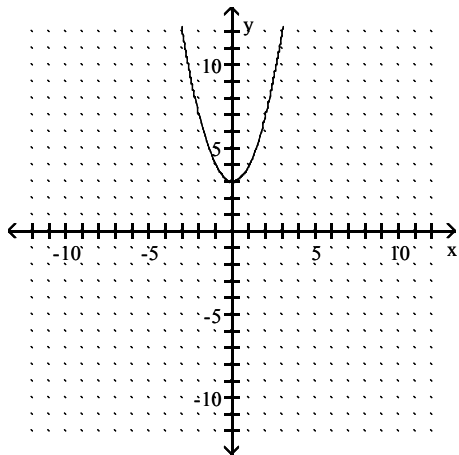
6)



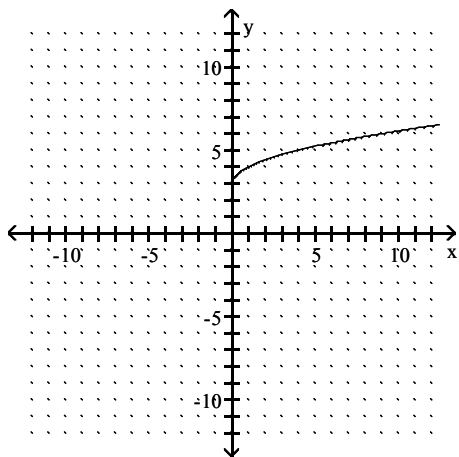
Answer Key

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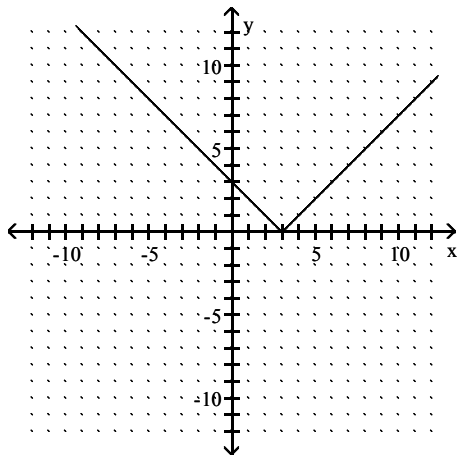
7)



8)



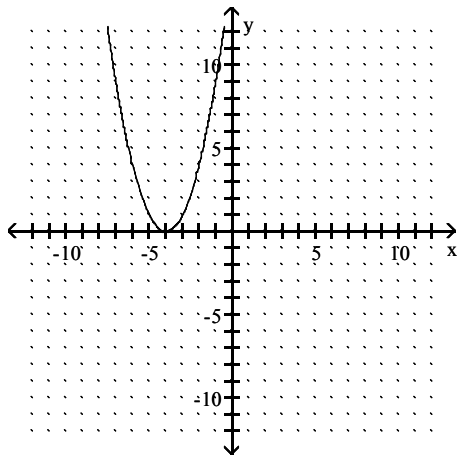
9)



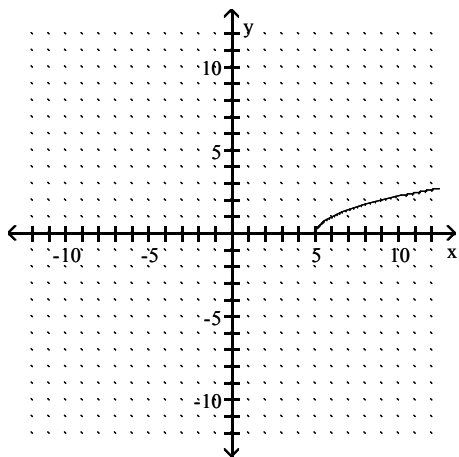
Answer Key

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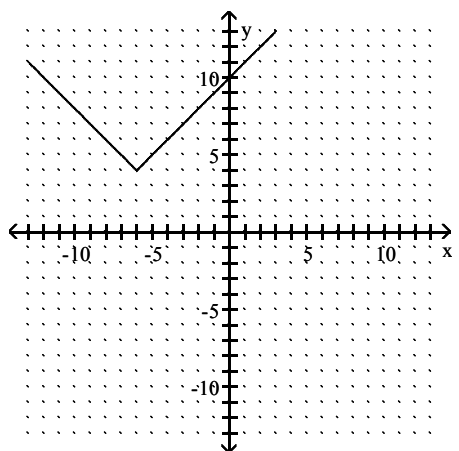
10)



11)



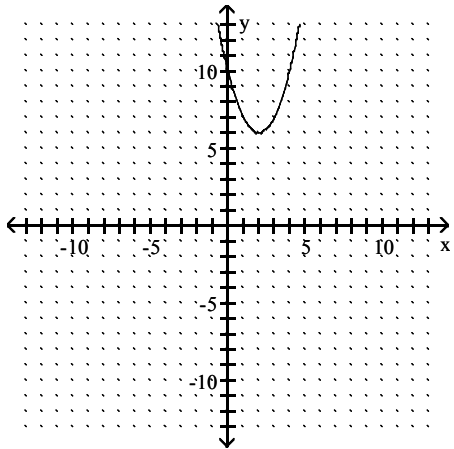
12)



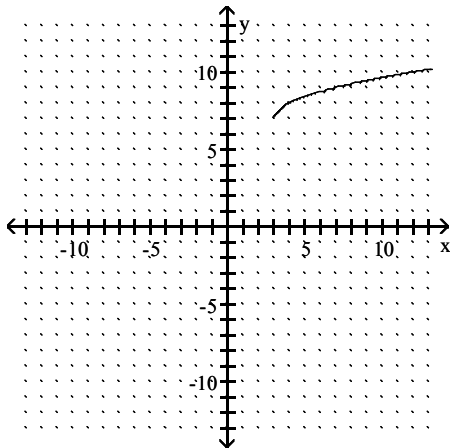
Answer Key

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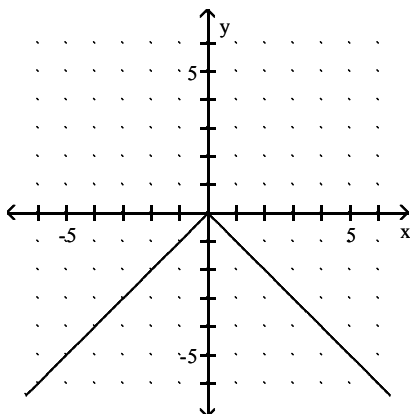
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14)



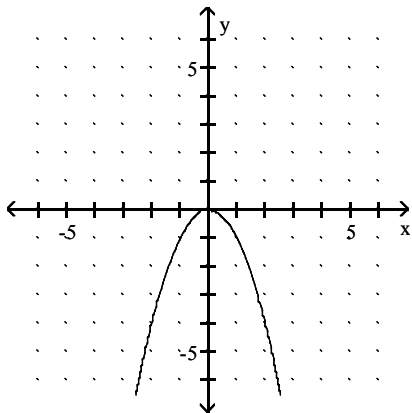
15)



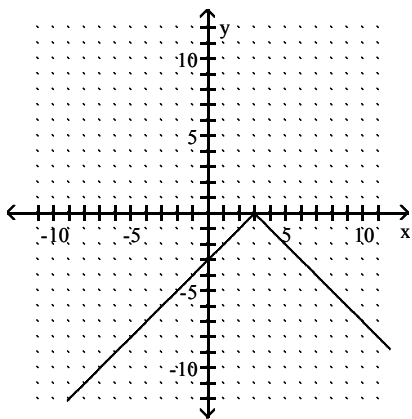
Answer Key

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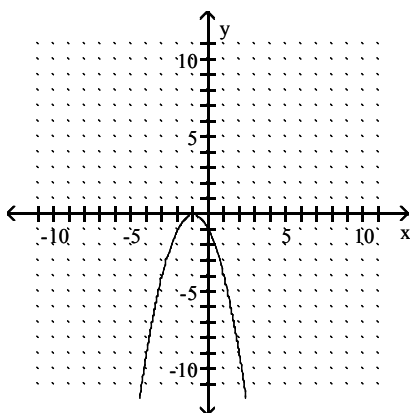
16)



17)



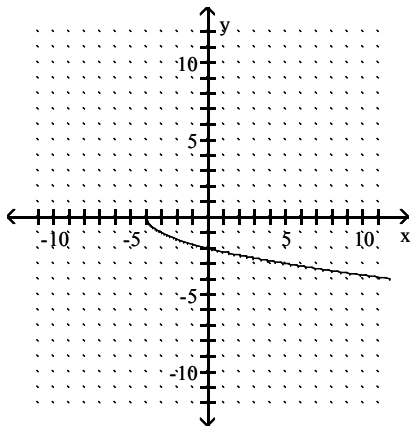
18)



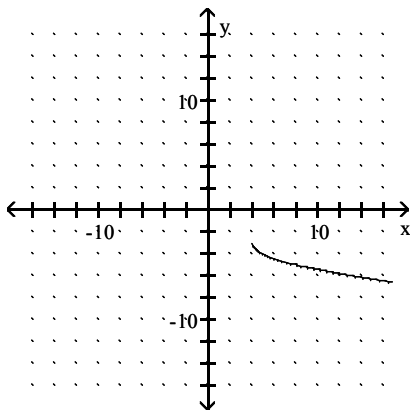
Answer Key

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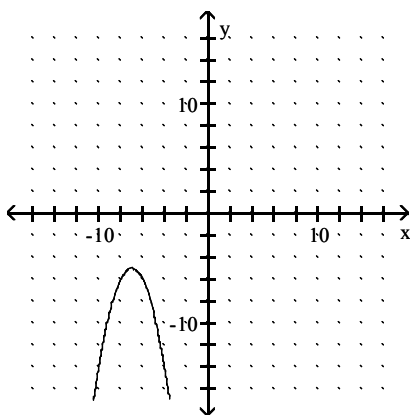
19)



20)



21)



Answer Key

Testname: PRACTICE FOR THE EXAM (3.6)

22)

