

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

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

1)  $(-2, 14)$  and  $(13, 1)$  1) \_\_\_\_\_

2)  $(9, -1)$  and  $(-2, -1)$  2) \_\_\_\_\_

3)  $(8, 2)$  and  $(3, 3)$  3) \_\_\_\_\_

**Find the slope.**

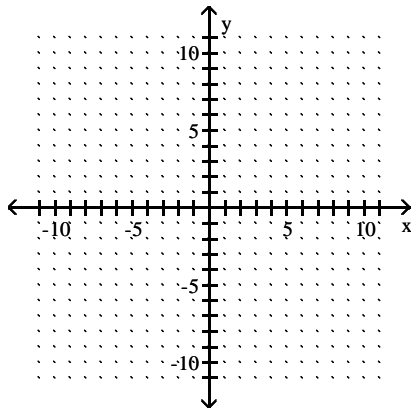
4) Find the slope of a line perpendicular to the line  $2x + 8y = 2$ . 4) \_\_\_\_\_

5) Find the slope of a line parallel to the line  $y = -\frac{7}{4}x + 6$ . 5) \_\_\_\_\_

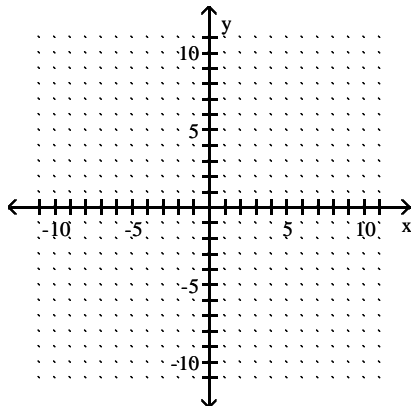
6) Find the slope of a line perpendicular to the line  $y = 2$ . 6) \_\_\_\_\_

**Find the y- and x-intercepts for the equation. Then graph the equation.**

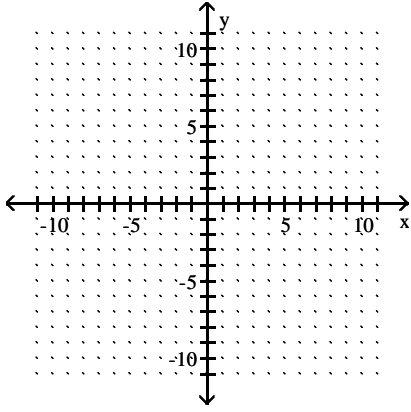
7)  $x + y = -4$  7) \_\_\_\_\_



8)  $-6x - 12y = 36$  8) \_\_\_\_\_

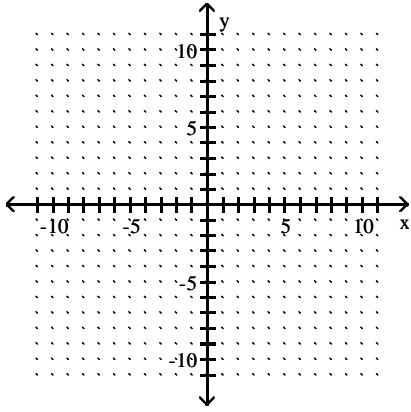


9)  $5x - 10y = 20$



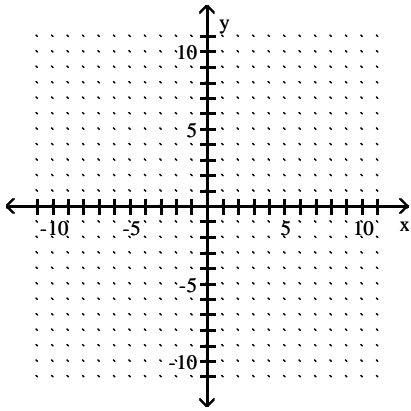
9) \_\_\_\_\_

10)  $4x - y = 5$



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

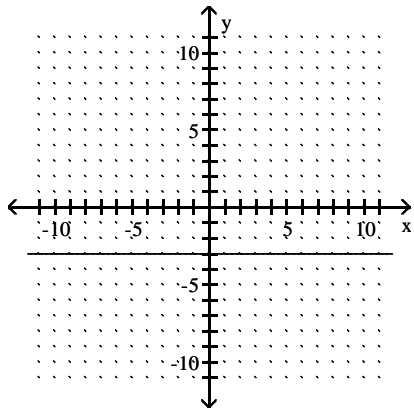
11)  $6y - 3x = -9$



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

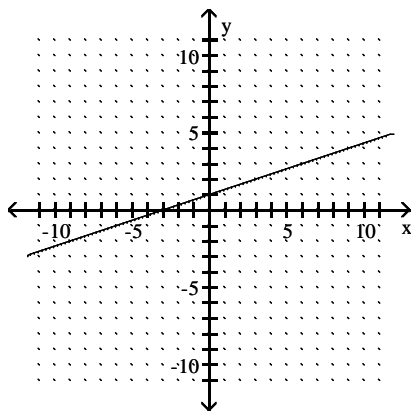
Find the slope of the line, or state that the slope is undefined.

12)



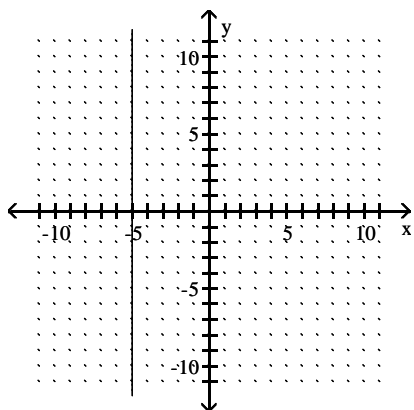
12) \_\_\_\_\_

13)



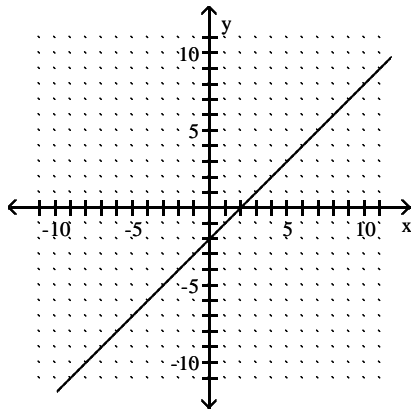
13) \_\_\_\_\_

14)



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

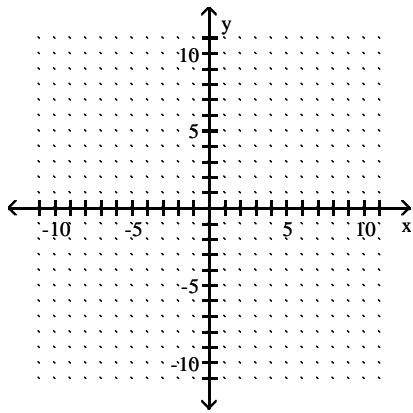
15)



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

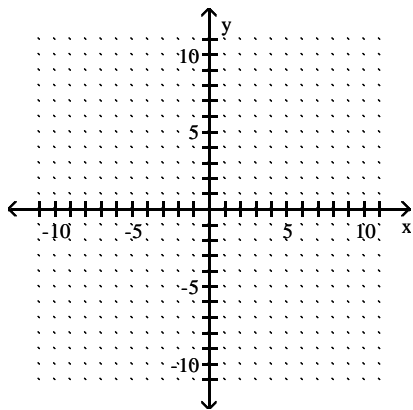
**Graph the equation.**

16)  $y + 3 = 0$



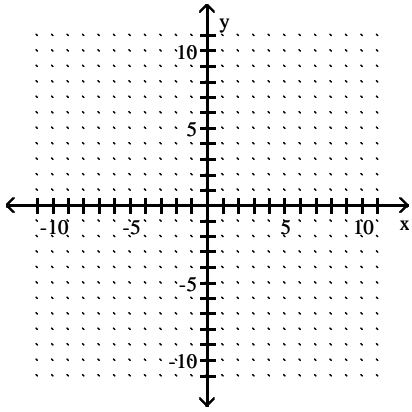
16) \_\_\_\_\_

17)  $y = -7$



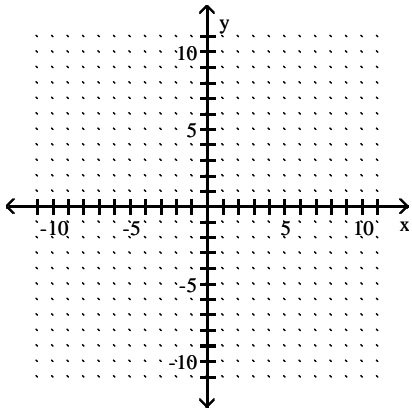
17) \_\_\_\_\_

18)  $-64 - 16x = 0$



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

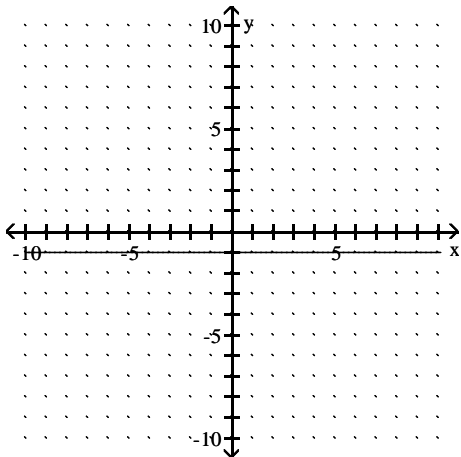
19)  $17x = -17$



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

Write an equation for the graph.

20)

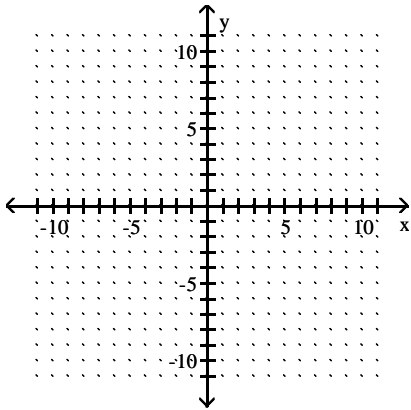


20) \_\_\_\_\_

Graph the linear equation using the slope and y-intercept.

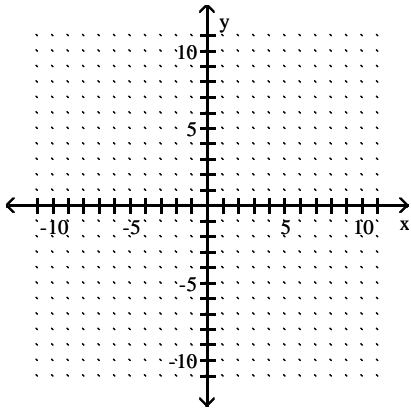
21)  $y = -\frac{1}{2}x + 2$

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



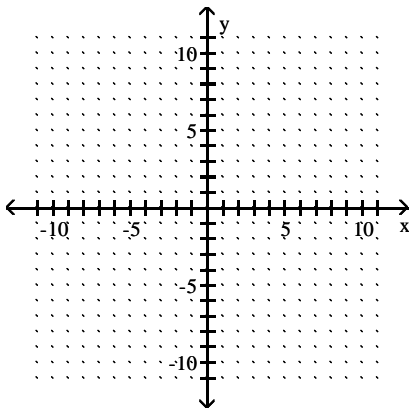
22)  $y = -3x - 3$

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



23)  $y = -5x$

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



Write an equation in slope-intercept form of the line satisfying the given conditions.

24) The line has a y-intercept at 5 and is parallel to the line containing (6, 23) and (7, 26).

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

25) Passing through (5, 2) and perpendicular to the line whose equation is  $y = \frac{1}{4}x + 9$ .

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

26) Passing through (5, -3) and parallel to the line whose equation is  $y = -3x + 7$ .

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

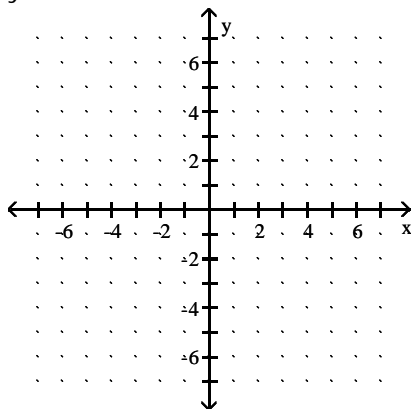
27) Passing through (5, 4) and parallel to the line whose equation is  $y = -6x$ .

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

**Graph the linear equation in two variables.**

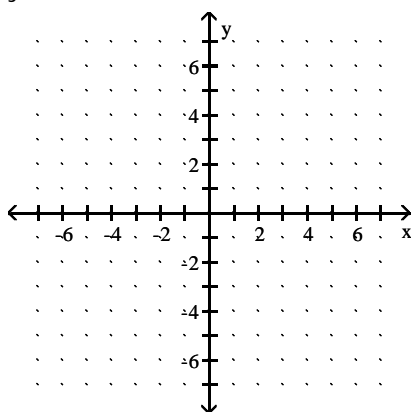
28)  $y = 6x$

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



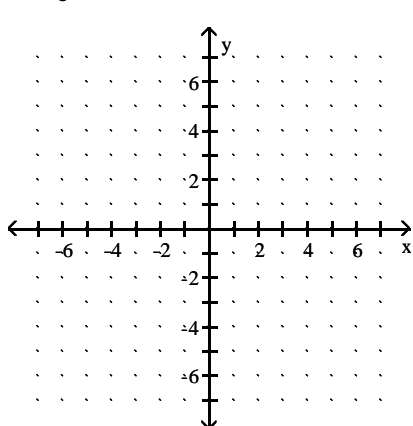
29)  $y = 3x + 2$

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

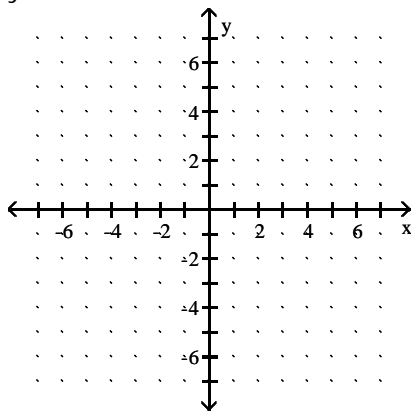


30)  $y = \frac{1}{6}x - 5$

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

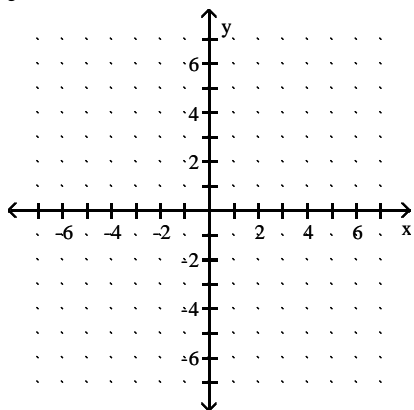


31)  $y = x - 1$



31) \_\_\_\_\_

32)  $y = -x - 6$



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



# Answer Key

Testname: M830\_GRAPHING

1)  $-\frac{13}{15}$

2) 0

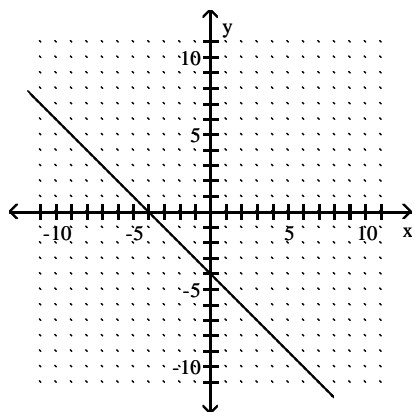
3)  $-\frac{1}{5}$

4) 4

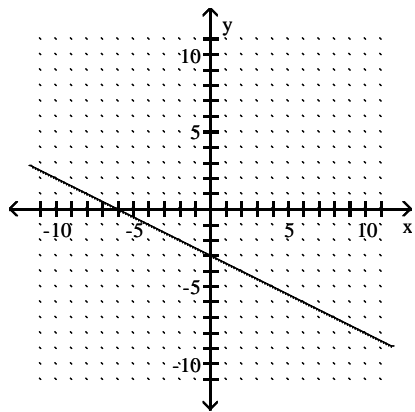
5)  $-\frac{7}{4}$

6) undefined

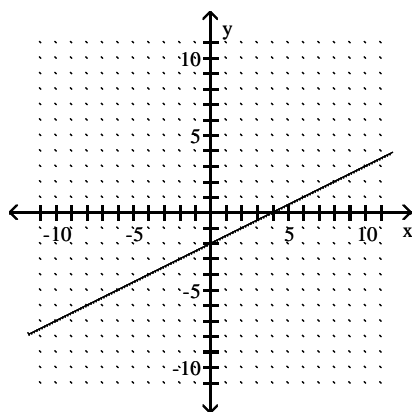
7) (0, -4), (-4, 0)



8) (0, -3); (-6, 0)



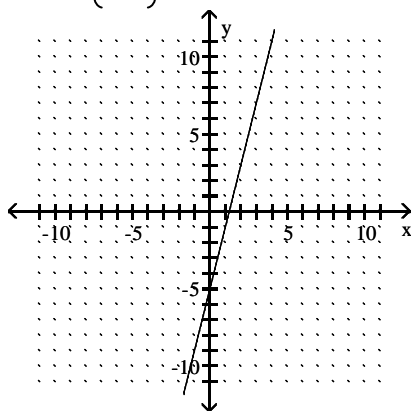
9) (0, -2); (4, 0)



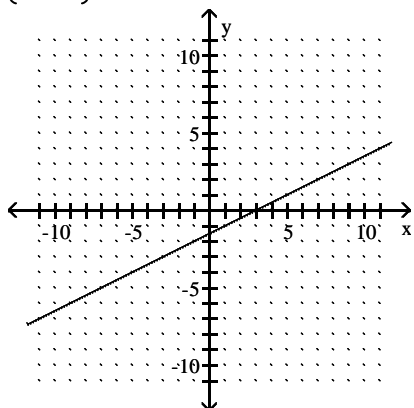
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10)  $(0, -5); \left(\frac{5}{4}, 0\right)$



11)  $\left(0, -\frac{3}{2}\right); (3, 0)$



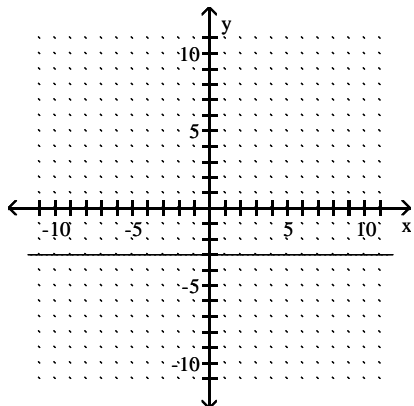
12) 0

13)  $\frac{1}{3}$

14) Undefined

15) 1

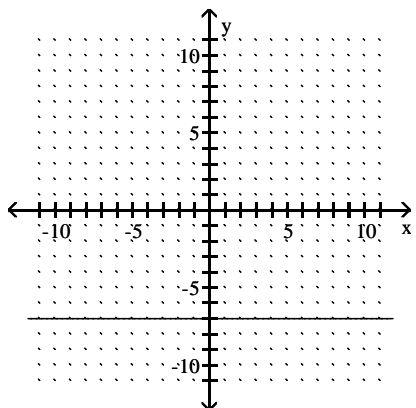
16)



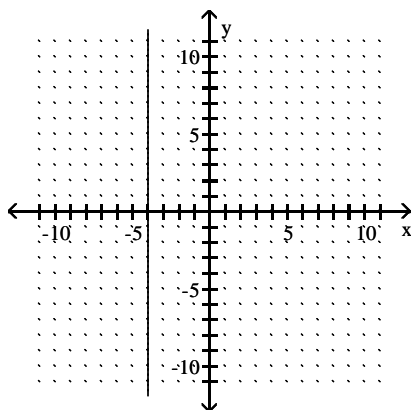
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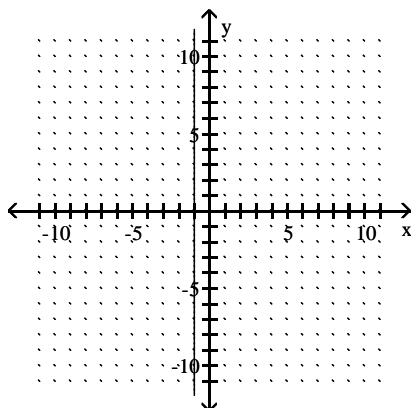
17)



18)



19)

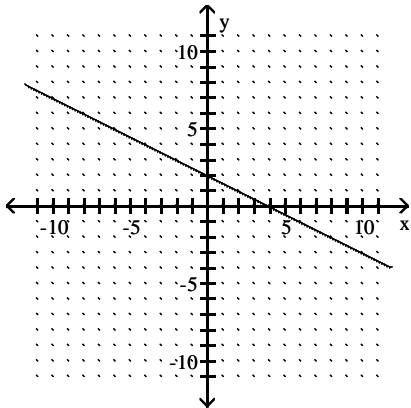


20)  $y = -1$

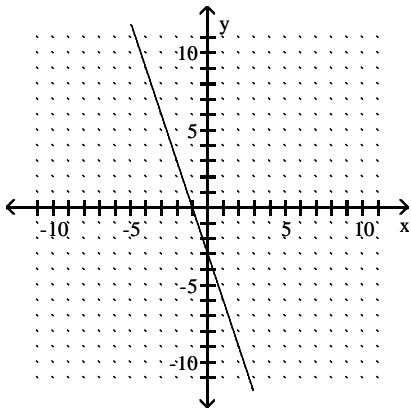
Answer Key

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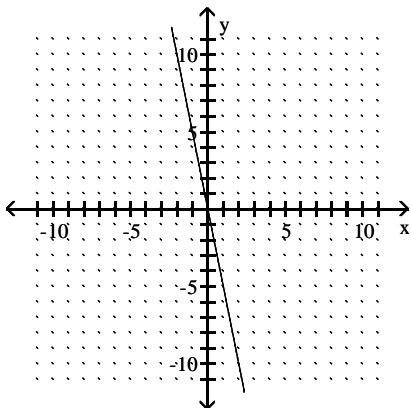
21)



22)



23)



24)  $y = 3x + 5$

25)  $y = -4x + 22$

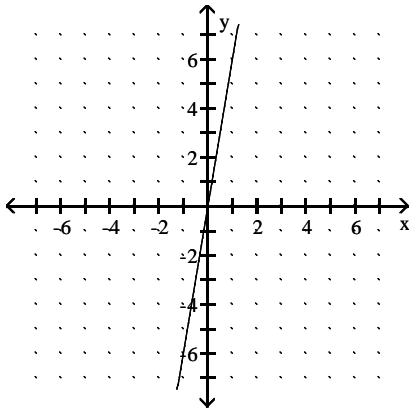
26)  $y = -3x + 12$

27)  $y = -6x + 34$

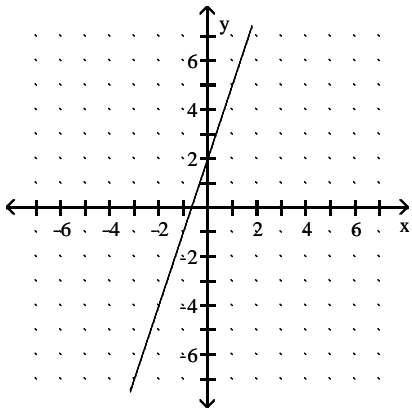
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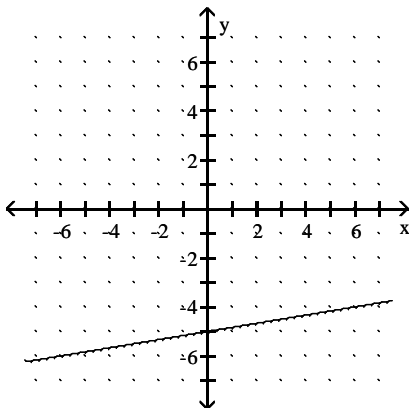
28)



29)



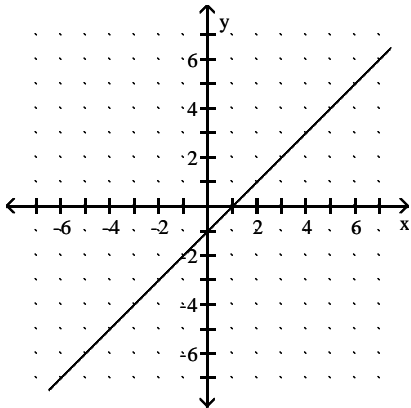
30)



Answer Key

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31)



32)

