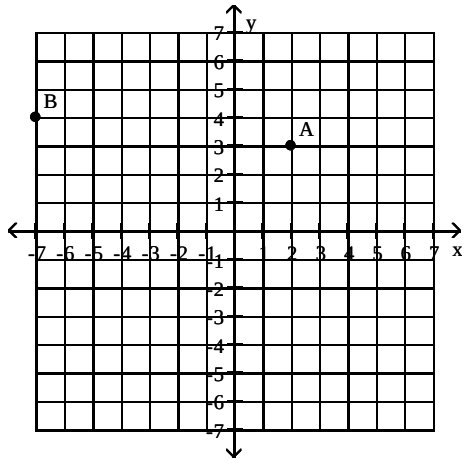
Math 084 Spring 2014 Quiz 5 Preparation sections sections 3.1 & 3.2 v02
Dressler

Name_____

Give the ordered pairs that correspond to the points labeled in the figure.

1)



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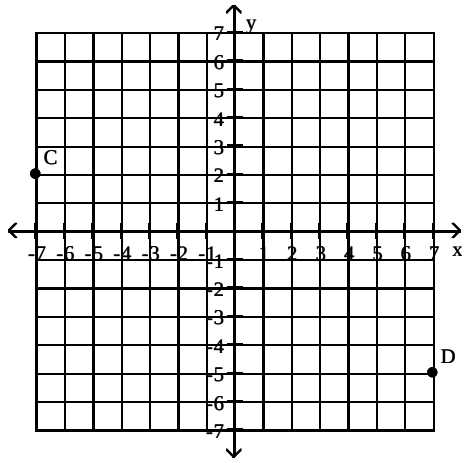

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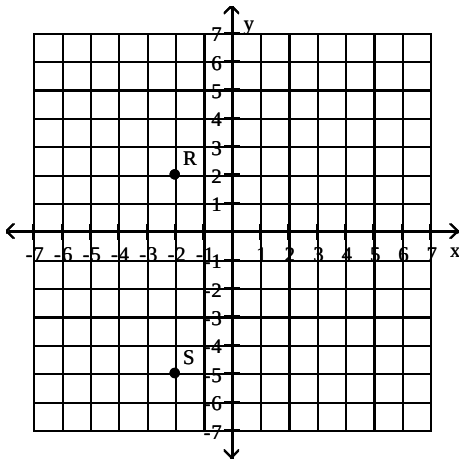

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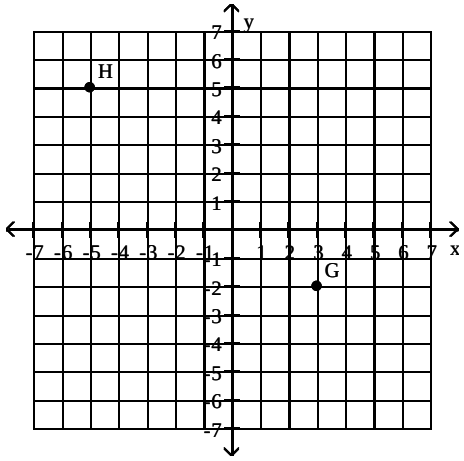


Determine whether the ordered pair is a solution of the given equation.

5) (–3, 3)
$y = x + 6$

6) (4, 3)
$y = x - 1$

7) (–6, –2)
$y = x + 8$

8) (3, –1)
$y = x - 2$

9) (–4, 4)
$x - y = -8$

10) (–2, 1)
$x - y = -3$

11) (6, 4)
$x - y = -10$

12) (3, 5)
$x - y = -8$

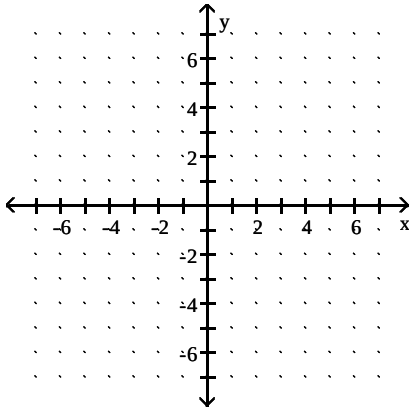
13) (–5, 3)
$2x + 4y = 2$

14) (3, –3)
$4x + 2y = 6$

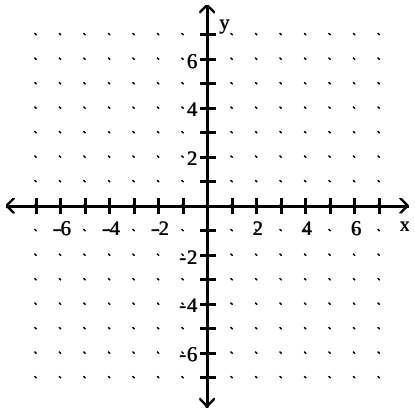
15) (5, 4)
$3x + 2y = 7$

Graph the linear equation in two variables.

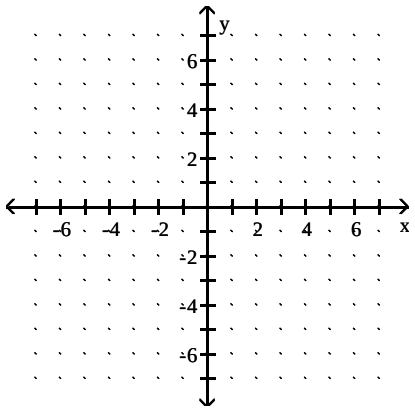
16) $y = 5x$



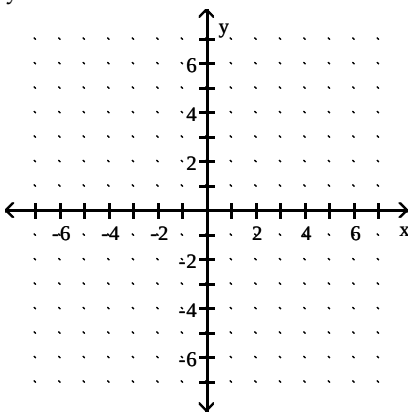
17) $y = -5x$



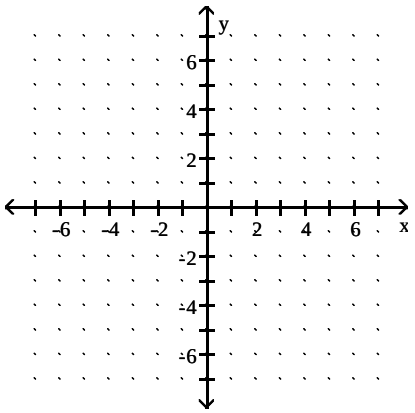
18) $y = x - 3$



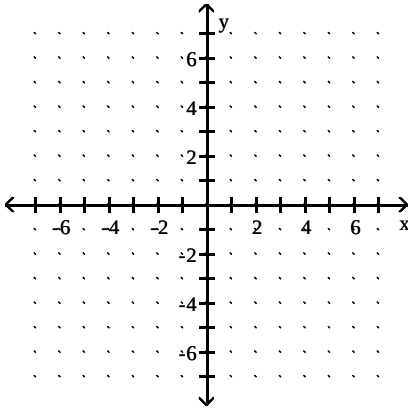
19) $y = -x + 1$



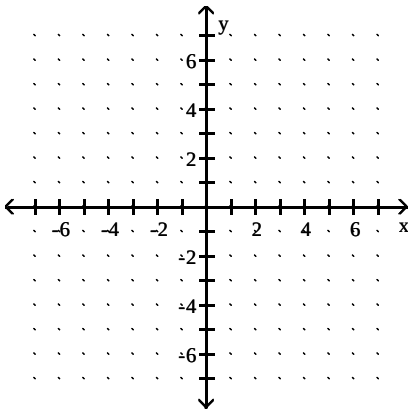
20) $y = 3x - 1$



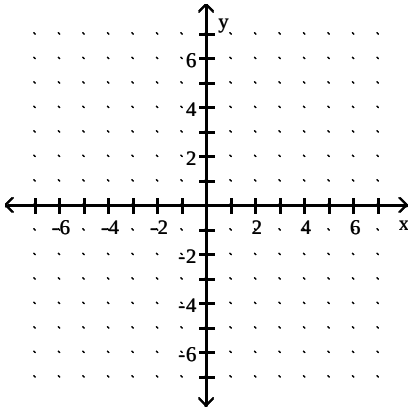
21) $y = -2x - 2$



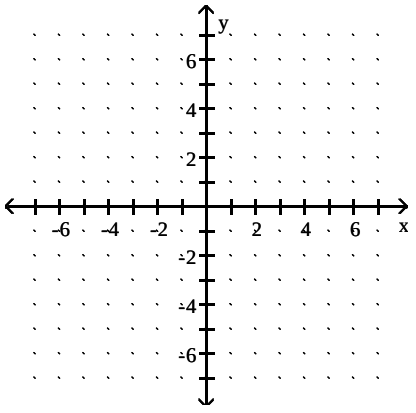
22) $y = \frac{1}{2}x + 1$



23) $y = \frac{1}{5}x - 2$



24) $y = \frac{1}{3}x - 2$



Solve the problem.

25) A customer at a store bought 3 bottles of juice and 6 fruit pies for a total cost of $78.75. If x represents the cost of a bottle of juice and y represents the cost of one fruit pie, write an equation in two variables that reflects the given conditions.

26) A customer at a store bought 4 bottles of juice and 7 fruit pies for a total cost of $65.50. If x represents the cost of a bottle of juice and y represents the cost of one fruit pie, write an equation in two variables that reflects the given conditions.

27) A customer at a store bought 6 bottles of juice and 5 fruit pies for a total cost of $76.00. If a bottle of juice costs $4.75, find the cost of a fruit pie.

28) A customer at a store bought 3 bottles of juice and 5 fruit pies for a total cost of $59.25. If a bottle of juice costs $4.75, find the cost of a fruit pie.

29) A customer at a store bought 3 bottles of juice and 8 fruit pies for a total cost of $70.75. If a bottle of juice costs $2.25, find the cost of a fruit pie.

30) The linear equation in two variables $y = 0.10x + 225$ models the total weekly cost, y, in dollars, for renting a car and driving it x miles. The equation indicates that the rental company charges a fixed amount of $225 for the week plus a cost of $0.10 for each mile the car is driven. Find a solution of $y = 0.10x + 225$ using 285 for x.

31) The linear equation in two variables $y = 0.25x + 175$ models the total weekly cost, y, in dollars, for renting a car and driving it x miles. The equation indicates that the rental company charges a fixed amount of $175 for the week plus a cost of $0.25 for each mile the car is driven. Find a solution of $y = 0.25x + 175$ using 400 for x.

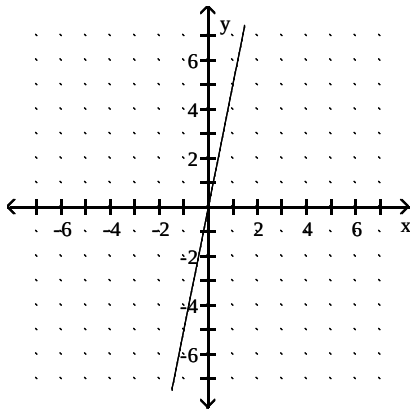
32) The linear equation in two variables $y = 2x + 50$ models the total cost, y, in dollars, for towing a car x miles. The equation indicates that the towing company charges a fixed amount of $50 to send a truck to pick up the car plus a cost of $2 for each mile the car is towed. Find a solution of $y = 2x + 50$ using 3 for x.

33) The linear equation in two variables $y = 3x + 65$ models the total cost, y, in dollars, for towing a car x miles. The equation indicates that the towing company charges a fixed amount of $65 to send a truck to pick up the car plus a cost of $3 for each mile the car is towed. Find a solution of $y = 3x + 65$ using 8 for x.

34) The linear equation in two variables $y = 3x + 70$ models the total cost, y, in dollars, for towing a car x miles. The equation indicates that the towing company charges a fixed amount of $70 to send a truck to pick up the car plus a cost of $3 for each mile the car is towed. Find a solution of $y = 3x + 70$ using 15 for x.

35) A customer at a store bought 8 bottles of juice and 3 fruit pies for a total cost of $42.00. If x represents the cost of a bottle of juice and y represents the cost of one fruit pie, write an equation in two variables that reflects the given conditions.

1) A = (2, 3), B = (–7, 4)
2) C = (–7, 2), D = (7, –5)
3) R = (–2, 2), S = (–2, –5)
4) G = (3, –2), H = (–5, 5)
5) Yes
6) Yes
7) No
8) No
9) Yes
10) Yes
11) No
12) No
13) Yes
14) Yes
15) No
16)



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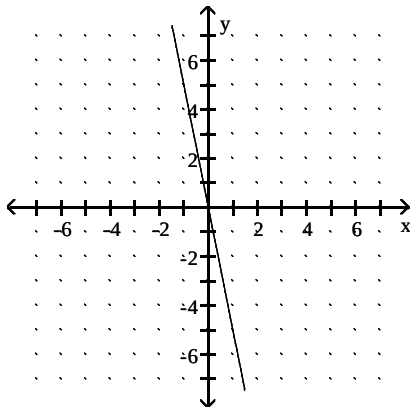

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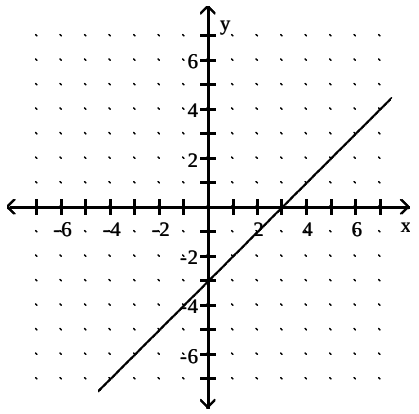

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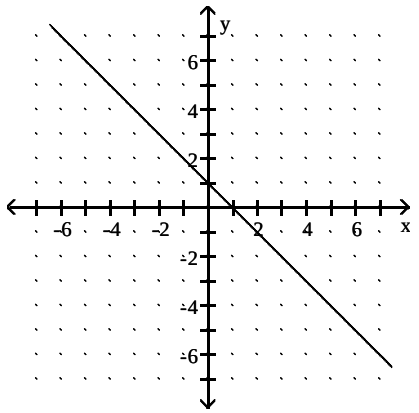

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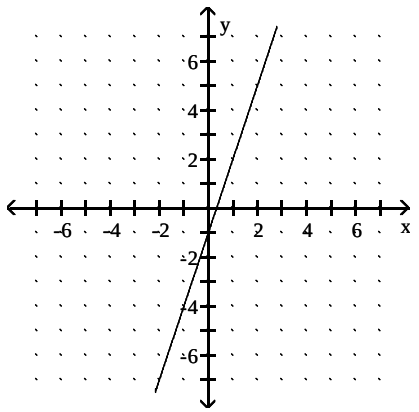

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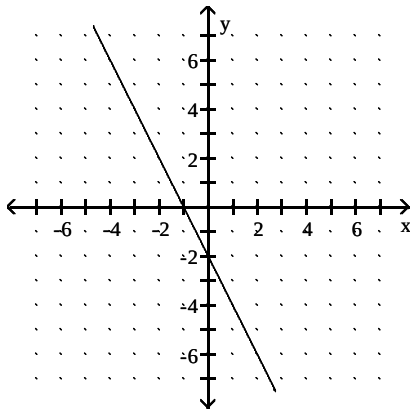

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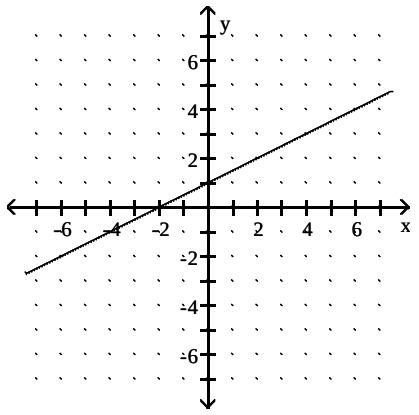

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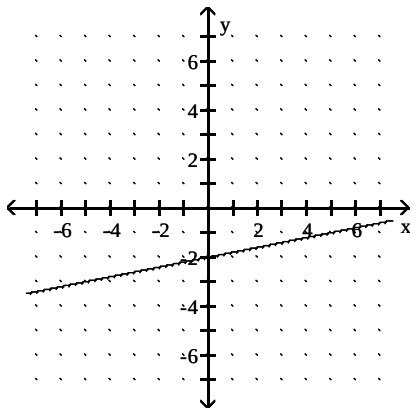

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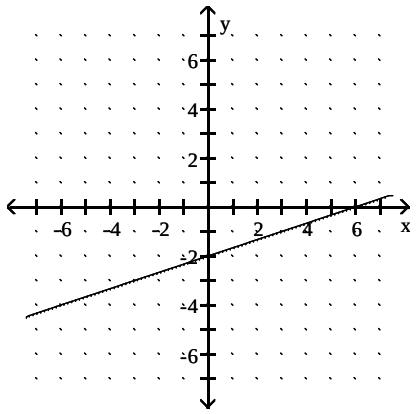

25) $3x + 6y = 78.75$
26) $4x + 7y = 65.50$
27) $9.50
28) $9.00
29) $8.00
30) (285, 253.5)
31) (400, 275)
32) (3, 56)
33) (8, 89)
34) (15, 115)
35) $8x + 3y = 42.00$