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6-1 Practice

Solving Systems by Graphing

Tell whether the ordered pair is a solution of the given system.

1. (3, 1); $\begin{cases} x + 3y = 6 \\ 4x - 5y = 7 \end{cases}$ _____

2. (6, –2); $\begin{cases} 3x - 2y = 14 \\ 5x - y = 32 \end{cases}$ _____

$x + 3y = 6$

$4x - 5y = 7$

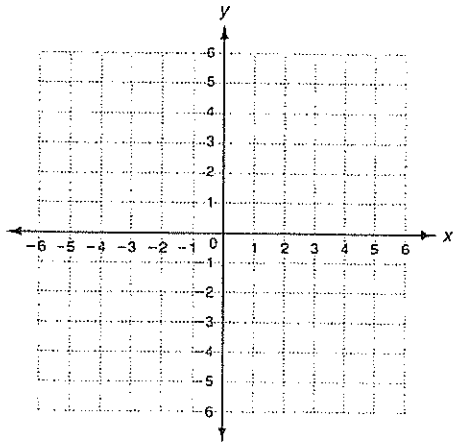
$3x - 2y = 14$

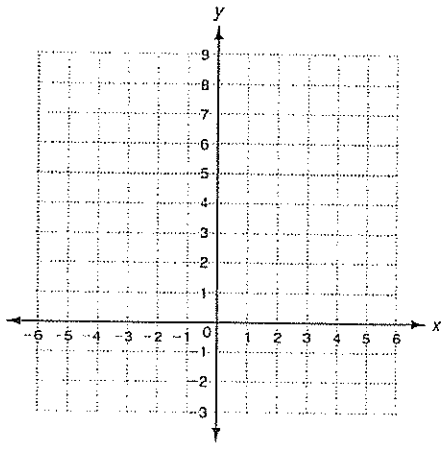
$5x - y = 32$

Solve each system by graphing. Check your answer.

3. $\begin{cases} y = x + 4 \\ y = -2x + 1 \end{cases}$ Solution: _____

4. $\begin{cases} y = x + 6 \\ y = -3x + 6 \end{cases}$ Solution: _____





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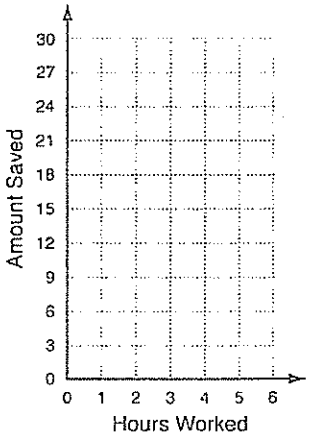
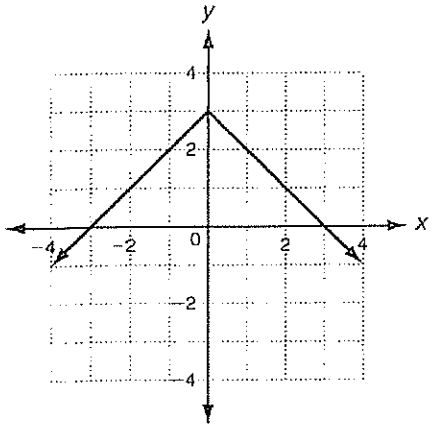
5. Maryann and Carlos are each saving for new scooters. So far, Maryann has $9 saved, and can earn $6 per hour babysitting. Carlos has $3 saved, and can earn $9 per hour working at his family's restaurant. After how many hours of work will Maryann and Carlos have saved the same amount? What will that amount be?

_____

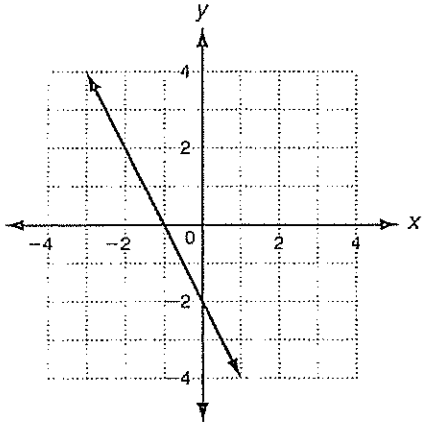


6. Which graph represents a linear function?

A



B



7. Which equation describes the line with a slope of 2 and y-intercept of 6?

A $y = 2x + 6$ B $y = 6x + 2$

8. Which equation describes the line with a slope of $\frac{3}{4}$ that contains the point (1, –2)?

A $y - 2 = \frac{3}{4}(x + 1)$ B $y + 2 = \frac{3}{4}(x - 1)$

9. Find the slope of the line that contains the points (1, –1) and (–2, 8).

F –5 H $-\frac{7}{3}$ G –3 J $-\frac{1}{3}$

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6-2 Practice

Solving Systems by Substitution

Solve each system by substitution. Check your answer.

1. $\begin{cases} y = x - 2 \\ y = 4x + 1 \end{cases}$

2. $\begin{cases} y = x - 4 \\ y = -x + 2 \end{cases}$

3. $\begin{cases} y = 3x + 1 \\ y = 5x - 3 \end{cases}$

_____ _____ _____

4. $\begin{cases} 2x - y = 6 \\ x + y = -3 \end{cases}$

5. $\begin{cases} 2x + y = 8 \\ y = x - 7 \end{cases}$

6. $\begin{cases} 2x + 3y = 0 \\ x + 2y = -1 \end{cases}$

_____ _____ _____

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7. $\begin{cases} 3x-2y=7 \\ x+3y=-5 \end{cases}$

8. $\begin{cases} -2x+y=0 \\ 5x+3y=-11 \end{cases}$

9. $\begin{cases} \frac{1}{2}x+\frac{1}{3}y=5 \\ \frac{1}{4}x+y=10 \end{cases}$

10. $\begin{cases} y=4x \\ y=2x+6 \end{cases}$

11. $\begin{cases} y=x-2 \\ 2x+y=4 \end{cases}$

12. $\begin{cases} 2x+y=-1 \\ -x+y=-7 \end{cases}$