Practice 8-7

Solving Systems of Linear Equations

Is each ordered pair a solution of the given system? Write *yes* or *no*.

1. $y = 6x + 12$
$2x - y = 4$

$(-4, -12)$ _____

2. $y = -3x$
$x = 4y + \frac{1}{2}$

$\left(-\frac{1}{2}, \frac{3}{2}\right)$ _____
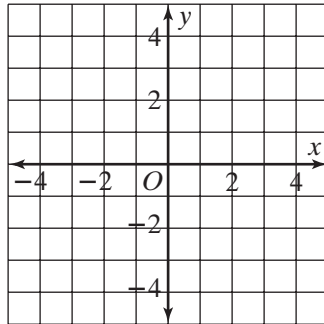
3. $x + 2y = 2$
$2x + 5y = 2$

$(6, -2)$ _____

Solve each system by graphing. Check your solution.

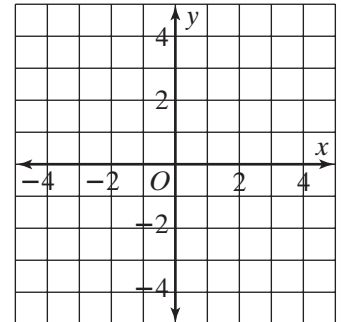**4.** $x + y = 3$
$x - y = -1$
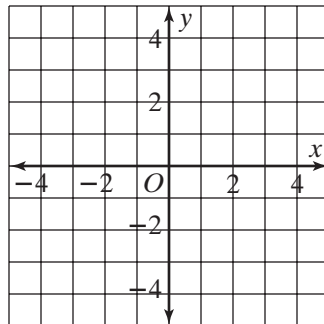Solution:

_____

5. $2x + y = 1$
$x - 2y = 3$
Solution:
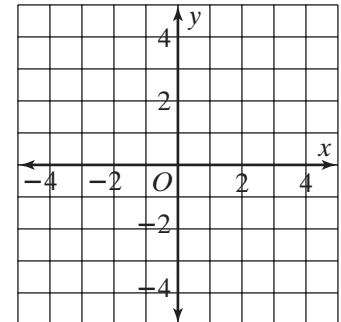
_____

6. $y + 2 = 0$
$2x + y = 0$
Solution:

_____

7. $3x + 2y = -6$
$x + 3y = -2$
Solution:

_____

Write a system of linear equations. Solve by graphing.

8. The sum of two numbers is 3. Their difference is 1. Find the numbers.

_____

_____

_____