

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

$(-\frac{1}{2}, \frac{3}{2})$ _____

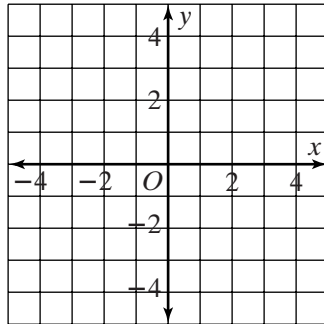
3. $x + 2y = 2$
 $2x + 5y = 2$

$(6, -2)$ _____

Solve each system by graphing. Check your solution.

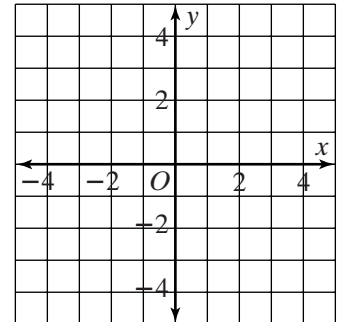
4. $x + y = 3$
 $x - y = -1$

Solution:



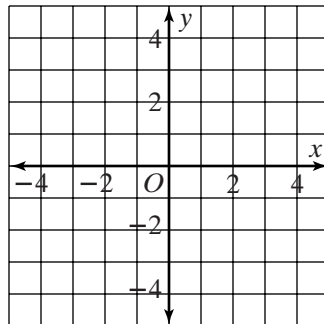
5. $2x + y = 1$
 $x - 2y = 3$

Solution:



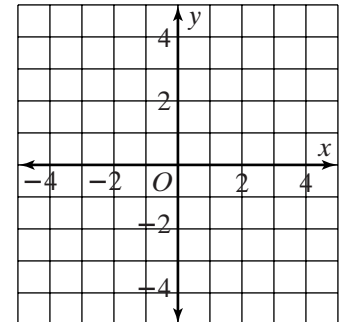
6. $y + 2 = 0$
 $2x + y = 0$

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.

