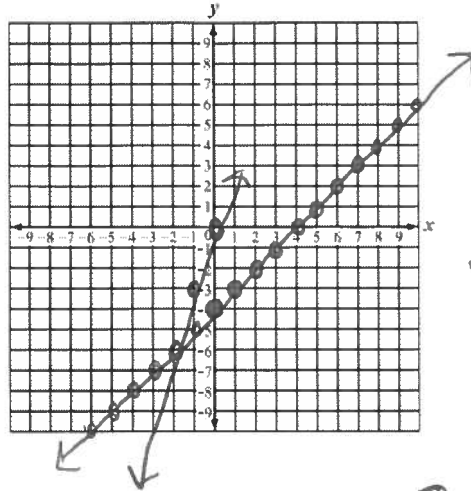


Pre-Algebra
U7L5 (8-7) Practice

Name: KEY

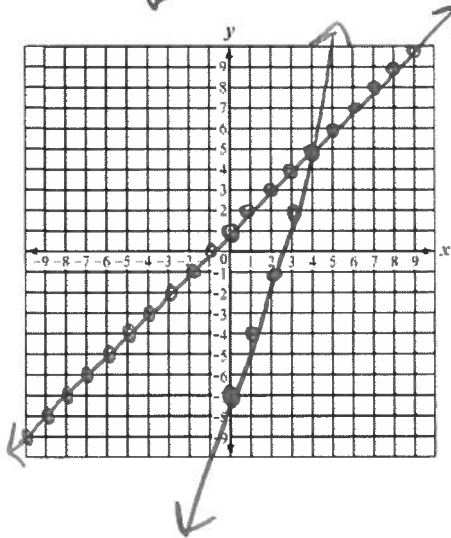
Graph each system of equations and find the solution.

$$\begin{cases} y = x - 4 \\ y = 3x \end{cases}$$



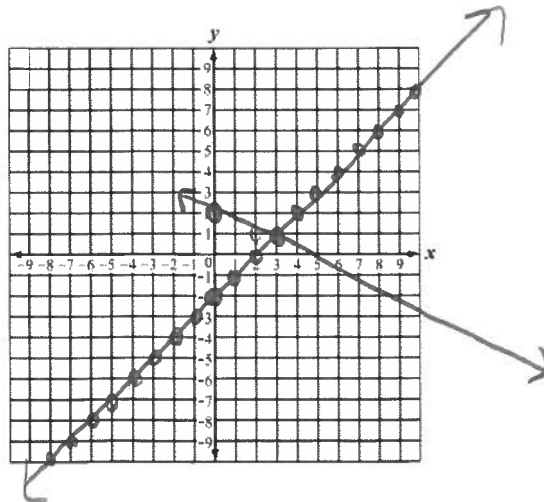
$(-2, -6)$

$$\begin{cases} y = x + 1 \\ y = 3x - 7 \end{cases}$$



$(4, 5)$

$$\begin{cases} y = x - 2 \\ y = -\frac{1}{3}x + 2 \end{cases}$$



$(3, 1)$

Practice 8-7

Solving Systems of Linear Equations

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

$-12 = -24 + 12$
 $-12 = -12 \checkmark$
 $8 - (-12) = 4$
 $4 = 4 \checkmark$

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

$(-4, -12)$ yes

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

$(-\frac{1}{2}, \frac{3}{2})$ no

$\frac{3}{2} = -3(-\frac{1}{2})$
 $\frac{3}{2} = \frac{3}{2} \checkmark$

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

$(6, -2)$ yes

$6 + (-4) = 2$
 $2 = 2 \checkmark$
 $12 + (-10) = 2$
 $2 = 2 \checkmark$

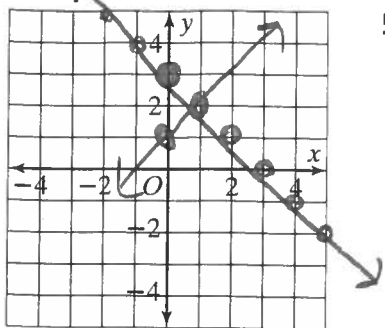
Solve each system by graphing. Check your solution.

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

Solution:

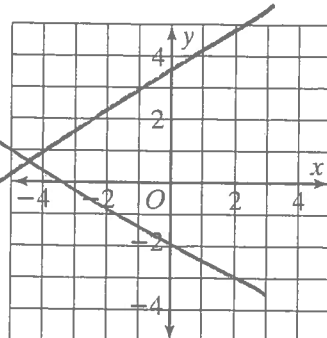
$(1, 2)$

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



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

Solution:

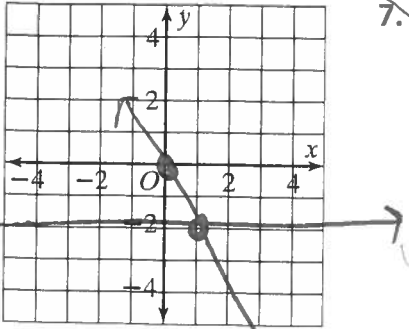


6. $y + 2 = 0$
 $2x + y = 0$

Solution:

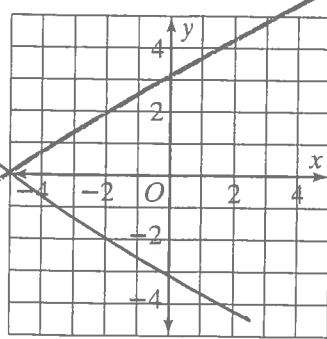
$(1, -2)$

$y = -2$
 $y = -2x$



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

Solution:

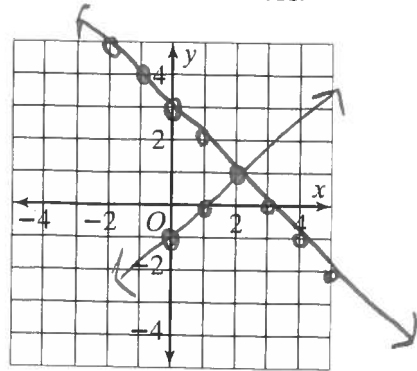


Write a system of linear equations. Solve by graphing.

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

$x \rightarrow$ greater #
 $y \rightarrow$ smaller #
 $(2, 1)$

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



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