

GRAPHING HW

Name _____ Date _____ Class _____

LESSON
6-1

Practice B

Solving Systems by Graphing

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

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

$$\begin{array}{r|l} x+3y=6 & 4x-5y=7 \\ \hline 3+3(1)=6 & 4(3)-5(1)=7 \\ 3+3 & 12-5 \\ 6=6 & 7=7 \end{array}$$

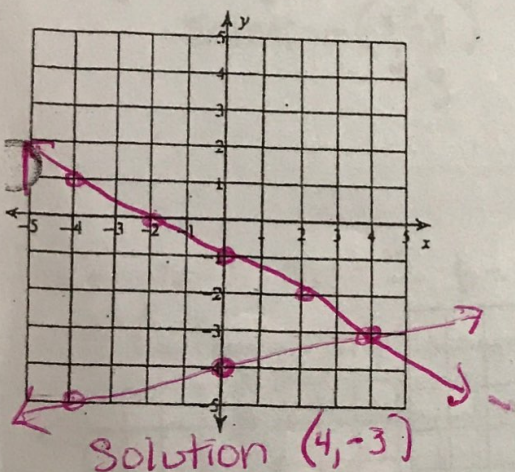
2. $(6, -2)$; $\begin{cases} 3x-2y=14 \\ 5x-y=32 \end{cases}$ **NO**

$$\begin{array}{r|l} 3x-2y=14 & 5x-y=32 \\ \hline 3(6)-2(-2)=14 & 5(6)-(-2)=32 \\ 18+4 & 30+4 \\ 22 \neq 14 & 34 \neq 32 \\ \text{NO} & \text{NO} \end{array}$$

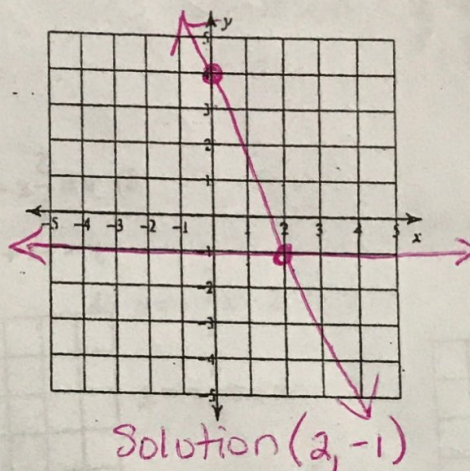
Solve each system by graphing. Check your answer.

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

$y = \frac{1}{4}x - 4$ $m = \frac{1}{4}$ $b = -4$

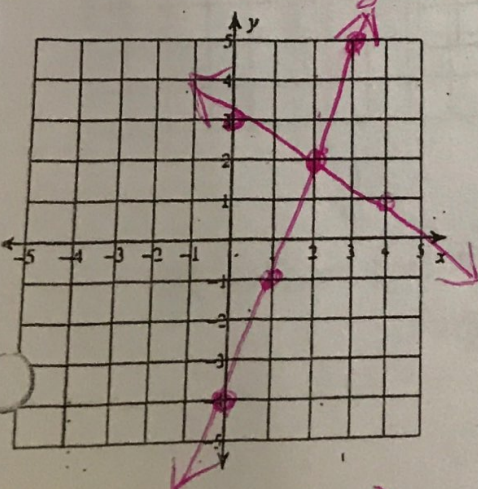


4) $y = -1$ ← horizontal line **horizontal**
 $y = -\frac{5}{2}x + 4$ $m = -\frac{5}{2}$ $b = 4$



5) $y = 3x - 4$ $m = 3$ $b = -4$

$y = -\frac{1}{2}x + 3$ $m = -\frac{1}{2}$ $b = 3$



6) $y = -2x + 2$ $m = -2$ $b = 2$
 $y = -2x - 2$ $m = -2$ $b = -2$

