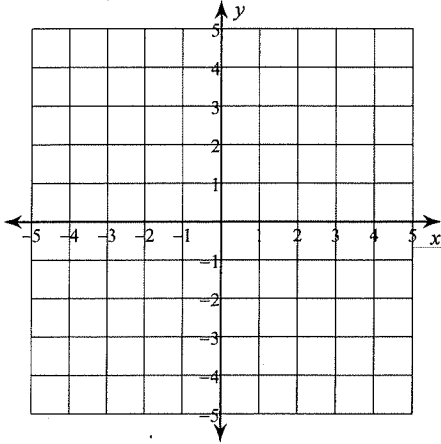


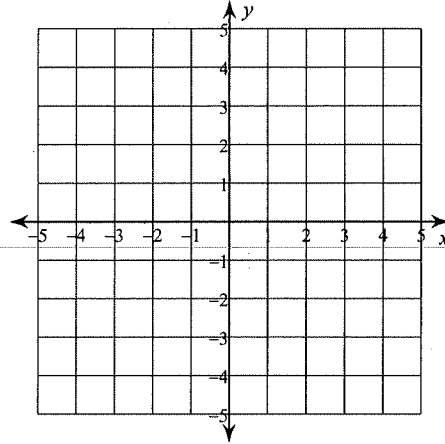
HW 18

Solve each system by graphing. First get $y = mx + b$!

1) $5x + y = 3$
 $x + y = -1$



2) $-x = 3y - 9$
 $x = -3y + 9$



Solve each system by substitution.

3) $y = 4x + 2$
 $-3x - y = -9$

4) $2x - 2y = -2$
 $y = -6$

Write the slope-intercept form of the equation of the line through the given point with the given slope. First write the equation in point-slope form and then solve for y .

5) through: $(4, -2)$, slope = $\frac{1}{4}$

6) through: $(-5, 5)$, slope = $-\frac{6}{5}$

Write the slope-intercept form of the equation of the line through the given points.

7) through: $(-2, -1)$ and $(2, -3)$

8) through: $(0, 2)$ and $(1, 1)$

9) through: $(2, -5)$ and $(-1, 4)$

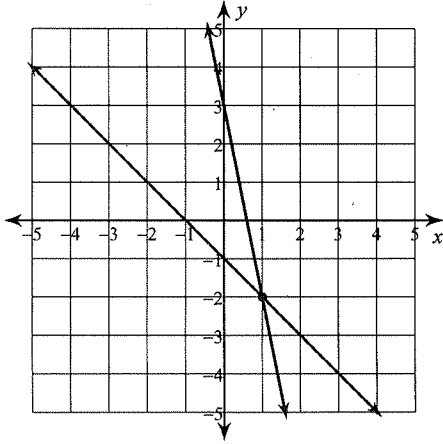
10) through: $(5, 3)$ and $(3, -3)$

HW 18

Date _____ Period _____

Solve each system by graphing. First get $y = mx + b$!

$$\begin{aligned} 1) \quad & 5x + y = 3 \\ & x + y = -1 \end{aligned}$$

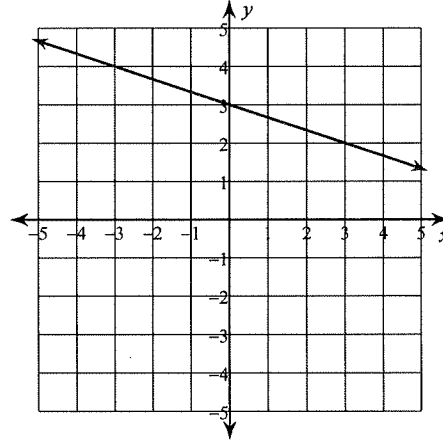
 $(1, -2)$

Solve each system by substitution.

$$\begin{aligned} 3) \quad & y = 4x + 2 \\ & -3x - y = -9 \end{aligned}$$

 $(1, 6)$

$$\begin{aligned} 2) \quad & -x = 3y - 9 \\ & x = -3y + 9 \end{aligned}$$



Infinite number of solutions

$$\begin{aligned} 4) \quad & 2x - 2y = -2 \\ & y = -6 \end{aligned}$$

 $(-7, -6)$ Write the slope-intercept form of the equation of the line through the given point with the given slope. First write the equation in point-slope form and then solve for y .

$$5) \text{ through: } (4, -2), \text{ slope} = \frac{1}{4}$$

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

$$6) \text{ through: } (-5, 5), \text{ slope} = -\frac{6}{5}$$

$$y = -\frac{6}{5}x - 1$$

Write the slope-intercept form of the equation of the line through the given points.

$$7) \text{ through: } (-2, -1) \text{ and } (2, -3)$$

$$y = -\frac{1}{2}x - 2$$

$$8) \text{ through: } (0, 2) \text{ and } (1, 1)$$

$$y = -x + 2$$

$$9) \text{ through: } (2, -5) \text{ and } (-1, 4)$$

$$y = -3x + 1$$

$$10) \text{ through: } (5, 3) \text{ and } (3, -3)$$

$$y = 3x - 12$$