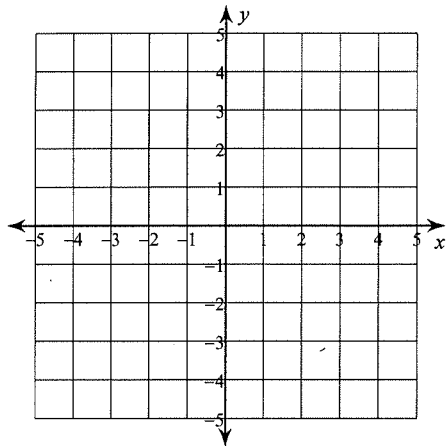


## Quiz 7 Practice

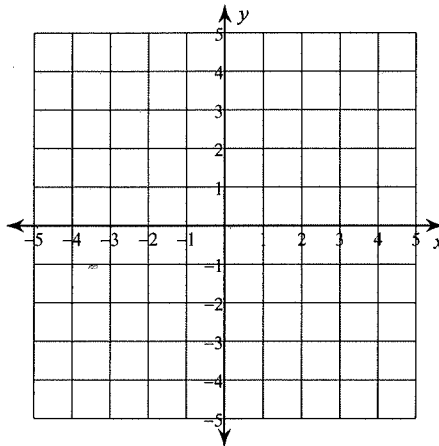
Date \_\_\_\_\_ Period \_\_\_\_\_

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

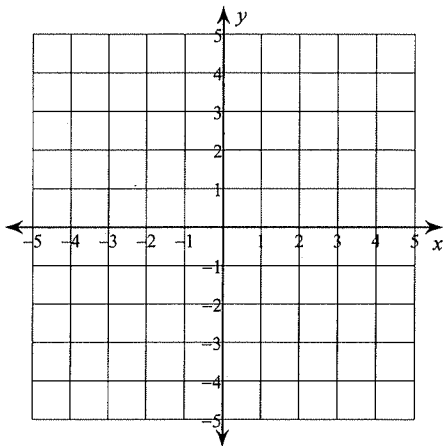
$$1) \begin{aligned} y &= -3x + 2 \\ y &= x - 2 \end{aligned}$$



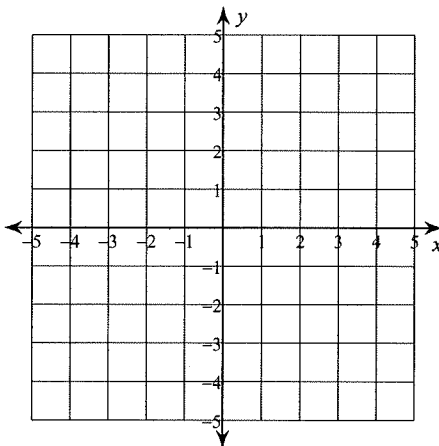
$$2) \begin{aligned} 5x - 4y &= 16 \\ x + 2y &= 6 \end{aligned}$$



$$3) \begin{aligned} x &= -8 - 4y \\ x + 8 + 4y &= 0 \end{aligned}$$



$$4) \begin{aligned} 0 &= -6 + 3y + 6x \\ 2x + y &= -4 \end{aligned}$$



**Solve each system by substitution.**

5)  $y = x + 3$   
 $-4x - 2y = -18$

6)  $8x + 2y = -18$   
 $y = -5x - 10$

**Write the point-slope form of the equation of the line through the given point with the given slope.**

**Remember:**  $y - y_1 = m(x - x_1)$ .

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

8) through:  $(1, -3)$ , slope =  $-6$

**Evaluate each using the values given.**

9)  $-4 + p - q$ ; use  $p = -5$ , and  $q = 3$

10)  $(a + b)^2$ ; use  $a = 2$ , and  $b = -6$

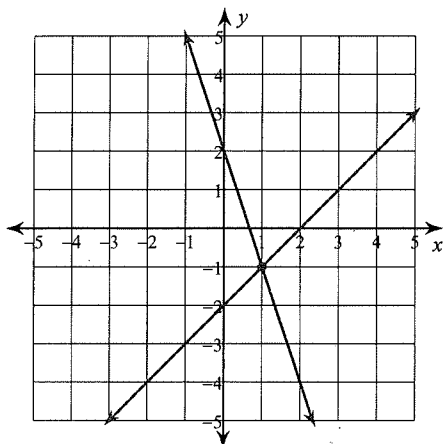
11)  $p - (q + 1)$ ; use  $p = -4$ , and  $q = 5$

12)  $|q| - p$ ; use  $p = -4$ , and  $q = -2$

Quiz 7 Practice

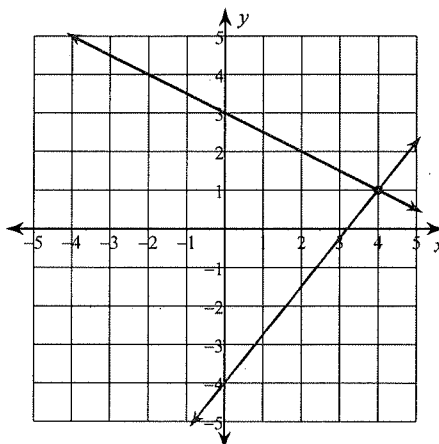
Solve each system by graphing. First get  $y = mx + b$  !

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



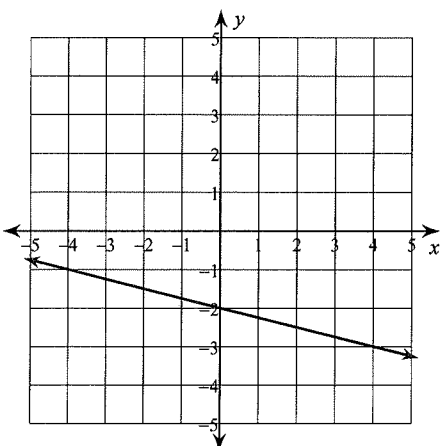
(1, -1)

2)  $5x - 4y = 16$   
 $x + 2y = 6$



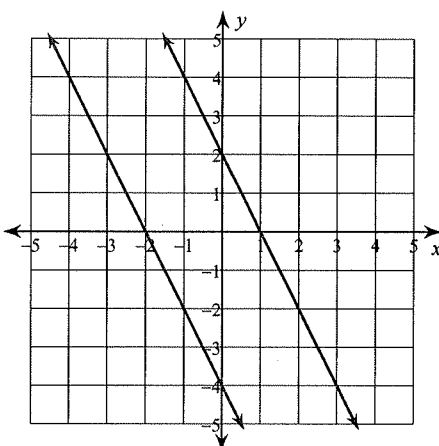
(4, 1)

3)  $x = -8 - 4y$   
 $x + 8 + 4y = 0$



Infinite number of solutions

4)  $0 = -6 + 3y + 6x$   
 $2x + y = -4$



No solution

**Solve each system by substitution.**

$$\begin{aligned} 5) \quad & y = x + 3 \\ & -4x - 2y = -18 \\ & (2, 5) \end{aligned}$$

$$\begin{aligned} 6) \quad & 8x + 2y = -18 \\ & y = -5x - 10 \\ & (-1, -5) \end{aligned}$$

**Write the point-slope form of the equation of the line through the given point with the given slope.**

**Remember:**  $y - y_1 = m(x - x_1)$ .

$$\begin{aligned} 7) \quad & \text{through: } (2, 1), \text{ slope} = -\frac{5}{2} \\ & y - 1 = -\frac{5}{2}(x - 2) \end{aligned}$$

$$\begin{aligned} 8) \quad & \text{through: } (1, -3), \text{ slope} = -6 \\ & y + 3 = -6(x - 1) \end{aligned}$$

**Evaluate each using the values given.**

$$\begin{aligned} 9) \quad & -4 + p - q; \text{ use } p = -5, \text{ and } q = 3 \\ & -12 \end{aligned}$$

$$\begin{aligned} 10) \quad & (a + b)^2; \text{ use } a = 2, \text{ and } b = -6 \\ & 16 \end{aligned}$$

$$\begin{aligned} 11) \quad & p - (q + 1); \text{ use } p = -4, \text{ and } q = 5 \\ & -10 \end{aligned}$$

$$\begin{aligned} 12) \quad & |q| - p; \text{ use } p = -4, \text{ and } q = -2 \\ & 6 \end{aligned}$$