Chapter 6
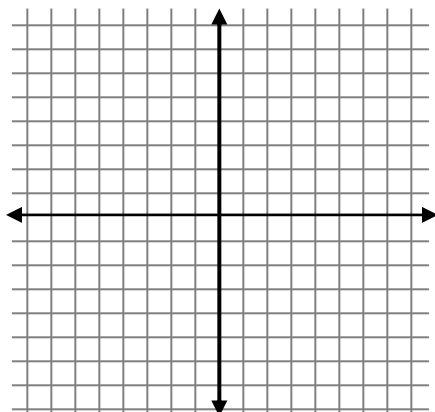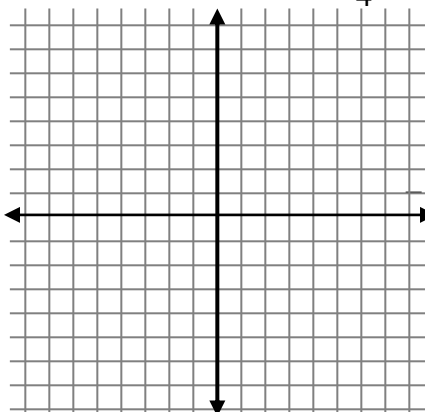## Practice Quiz

Solve the systems of equations by graphing.

1. $y = 3x + 7$ $y = -x + 3$

Solution:
_____

2. $y = -2x + 5$ $y = \dfrac{3}{4}x - 6$

Solution:
_____

Solve the systems of equations by the substitution method.

3. $x = y - 4$
   $2x + y = 10$

4. $3x - 4y = -11$
   $y = 2x - 1$

Solve the systems of equations by the elimination method.

5. $7x + 2y = 10$
   $-7x + y = -16$

6. $7x + 15y = 32$
   $x - 3y = 20$

7. $-2x + 5y = 20$
   $3x - 7y = -26$

8. How many solutions does the following system have?

a) $x + y = 4$
     $2x + 2y = 8$

9. How many solutions does the following system have?

   $x + 2y = 10$
   $2x + 4y = 12$

10. Multiple Choice: Find the value of y in the following system: $3x - 2y = 8$
                                                                       $4x + 2y = -1$

   A. $2\frac{1}{2}$ B. $-2\frac{1}{2}$ C. $5\frac{1}{2}$ D. $-5\frac{1}{2}$

Solutions:

1. (-1, 4)

2. (4, -3)

3. (2, 6)

4. (3, 5)

5. (2, -2)

6. (11, -3)

7. (10, 8)

8. Infinitely Many

9. None

10. B