

Solving by Substitution

Example:

$$2x + y = 12$$

$$x - y = 3$$

Directions: Solve each of the systems of equations below using substitution. Show all work in your notebook, and make sure you write your answer as an ordered pair.

1.) $y = 2x$
 $5x - y = 9$

2.) $y = 4x$
 $4x + 2y = 12$

2.) $y = 2x - 4$
 $8x + 4y = 16$

4.) $y = 4x - 6$
 $2x + 3y = 10$

5.) $x + 4y = 4$
 $6x + 2y = 90$

6.) $x + y = 9$
 $2x - 3y = -12$

7.) $2x + y = -8$
 $3x - 5y = -25$

8.) $3x + y = 12$
 $3x + 2y = 6$

9.) $4x - 5y = 20$
 $-4x + 2y = 4$

10.) $x + 6y = 12$
 $2x - 6y = 6$