

**Substitution & Elimination****Solve each system by substitution.**

1)  $y = -2$   
 $5x + 8y = -1$

2)  $8x + 3y = -8$   
 $y = -7x - 20$

3)  $y = -7x - 18$   
 $-2x + 4y = -12$

4)  $y = -4x$   
 $7x - 3y = 19$

5)  $-2x - y = -2$   
 $y = -4$

6)  $y = -8$   
 $7x - 5y = 5$

7)  $-5x - 2y = -21$   
 $y = -7$

8)  $-8x - 6y = -20$   
 $y = -6x + 8$

9)  $y = -3x - 9$   
 $5x + 8y = 23$

10)  $2x - 4y = 0$   
 $y = 2$

**Solve each system by elimination.**

11)  $8x - 9y = -26$   
 $-7x + 3y = -26$

12)  $-2x - y = -4$   
 $x + 7y = 15$

13)  $-18x + 6y = -6$   
 $-9x + 3y = -3$

14)  $10x + 7y = 30$   
 $5x + 2y = 0$

15)  $-10x + 4y = 8$   
 $-5x + y = 2$

16)  $3x - 6y = 3$   
 $8x - 7y = -1$

17)  $-7x + 8y = -2$   
 $-4x + 5y = 1$

18)  $-9x - 10y = -1$   
 $10x - 3y = -13$

19)  $-3x - 4y = -3$   
 $7x + 6y = 7$

20)  $9x + 7y = -5$   
 $10x + 9y = 3$

## Answers to Substitution & Elimination

1)  $(3, -2)$

5)  $(3, -4)$

9)  $(-5, 6)$

13) Infinite number of solutions

16)  $(-1, -1)$

20)  $(-6, 7)$

2)  $(-4, 8)$

6)  $(-5, -8)$

10)  $(4, 2)$

14)  $(-4, 10)$ 

17)  $(6, 5)$

3)  $(-2, -4)$

7)  $(7, -7)$

11)  $(8, 10)$

15)  $(0, 2)$ 

18)  $(-1, 1)$

4)  $(1, -4)$

8)  $(1, 2)$

12)  $(1, 2)$

19)  $(1, 0)$