

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Algebra I

Directions: Solve algebraically using the substitution method and check.

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

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

3.  $x = y$   
 $4x - 3y = 7$

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

5.  $-6x = 2y$   
 $4y - 3x = -30$

6.  $y - x = 1$   
 $2x = y - 1$

7.  $4x - 2y = 40$   
 $3y + 2x = 0$

8.  $3y - 5x = 0$   
 $2x = y + 1$

9.  $3y + 4x = 14$   
 $4x = 2y - 6$

10.  $-2x = y - 9$   
 $y + 4x = 20$

11.  $5x - 3y = -20$   
 $y + 7x = -28$

12.  $y = 2x + 1$   
 $-7x + 3y = 16$

13.  $x + y = 5$   
 $y = -x + 5$

14.  $y = 2x - 13$   
 $5y - 10x = -65$

15.  $2x = 6 - 2y$   
 $-4x - 4y = -12$

16.  $x = 6y + 1$   
 $2x = 12y + 2$

17.  $x = 2y + 1$   
 $2y - 8 = x$

18.  $2y = 4x + 6$   
 $2x - 7 = y + 9$