

Name \_\_\_\_\_ Period \_\_\_\_\_

Date \_\_\_\_\_

## Substitution HW

**Directions:** Solve each system of equations by substitution. *Show ALL you work!*

2.  $y = 2x$   
 $x + 3y = -14$

4.  $x = -4y$   
 $3x + 2y = 20$

6.  $x = y - 7$   
 $x + 8y = 2$

8.  $y = 3x + 8$   
 $5x + 2y = 5$

10.  $y = 5x - 8$   
 $4x + 3y = 33$

12.  $x + 5y = 4$   
 $3x + 15y = -1$

14.  $x + 4y = 8$   
 $2x - 5y = 29$

16.  $5x - 2y = 14$   
 $2x - y = 5$

18.  $x - 4y = 27$   
 $3x + y = -23$

20.  $2.5x + y = -2$   
 $3x + 2y = 0$

### Solutions:

2.
4.
6.
8.
10.
12.
14.
16.
18.
20.