

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

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

## Solving Systems of Equations by Substitution

### Section I. Solve the system of linear equations by using substitution

1. 
$$\begin{aligned}y &= 3x - 4 \\y &= 4 + x\end{aligned}$$

2. 
$$\begin{aligned}y &= x - 5 \\x + 3y &= -3\end{aligned}$$

3. 
$$\begin{aligned}x - 2y &= 4 \\x + 4y &= 7\end{aligned}$$

4. 
$$\begin{aligned}y &= x - 5 \\y &= \frac{1}{2}x - 1\end{aligned}$$

5. 
$$\begin{aligned}x + y &= 8 \\y &= x - 2\end{aligned}$$

6. 
$$\begin{aligned}3x - y &= 10 \\2x + y &= 0\end{aligned}$$

7. 
$$\begin{aligned}4x - y &= -3 \\y &= 9x - 7\end{aligned}$$

8. 
$$\begin{aligned}y &= 3x \\x + y &= 28\end{aligned}$$

9.  $x + 4y = -8$   
 $3x + 2y = 6$

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

11.  $3x - y = 7$   
 $4x - 5y = 2$

12.  $2x - y = 7$   
 $3x + 4y = 5$

13.  $x + 2y = 4$   
 $2x + 4y = 8$

14.  $3x - 4y = 17$   
 $x + 2y = -1$

15.  $x - 4y = 2$   
 $2x - 8y = 16$

16.  $x + 3y = 27$   
 $\frac{1}{2}x + 2y = 19$