

### Solving Systems of Linear Equations using *Elimination*\_3

Name:

Period:

Solve the following systems using the *elimination method*. Show all of your work.

1.  $x + y = 3$   
 $-2x + 4y = 6$

5.  $x + 3y = 1$   
 $-5x + 8y = 10$

2.  $7x - 4y = 6$   
 $3x - 2y = -15$

6.  $7x - 4y = -30$   
 $3x + 4y = 10$

3.  $9x + 4y = 13$   
 $3x + 5y = 9$

7.  $-\frac{2}{3}x + 6y = 38$   
 $x - 6y = -33$

4.  $9x - 5y = 14$   
 $-6x + 8y = 13$

8.  $3x - 5y = -16$   
 $2x - 3y = -8$

Solve the following system using the *substitution method*. Show all your work

9.  $x = 8y - 3$   
 $3x - 4y = 1$

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