

## Linear Functions Review

### Systems of Equations

Solve each system using substitution. Then check your solutions.

1.  $y = 6x$   
 $2x + 3y = -20$

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

3.  $x + 2y = 13$   
 $-2x - 3y = -18$

4.  $2x - 3y = -24$   
 $x + 6y = 18$

5.  $0.5x + 4y = -1$   
 $x + 2.5y = 3.5$

6.  $\frac{1}{3}x - y = 3$   
 $2x + y = 25$

Solve each system using elimination. Then check your solutions.

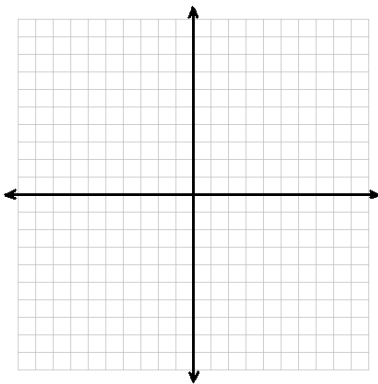
7.  $3x + 4y = 27$   
 $5x - 3y = 16$

8.  $3x + 2y = -9$   
 $5x - 3y = 4$

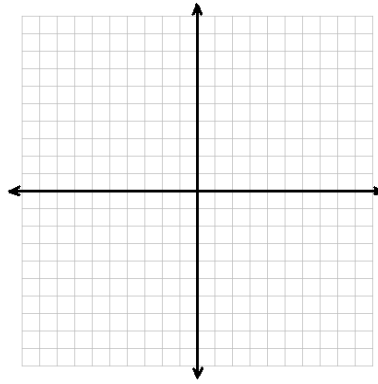
9.  $2x - \frac{3}{4}y = -7$   
 $x + \frac{1}{2}y = 0$

Solve each system by graphing.

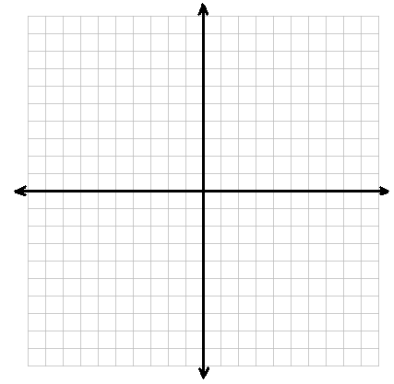
10.  $y = x - 2$   
 $y = x$



11.  $y = x - 4$   
 $2x + y = 2$



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



13. Laura and Brent paddled a canoe 6 miles upstream in four hours. The return trip took three hours. Find the rate at which Laura and Brent paddled the canoe in still water.