

## Chapter 6 Review 1



Use substitution to solve each system of equations:

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

2.  $2a + 3b = 6$   
 $a = b - 7$

Use elimination to solve each system of equations:

3.  $6x + 7y = 5$   
 $2x - 3y = 7$

4.  $5m + 2n = -8$   
 $4m + 3n = 2$

Solve each system by the method of your choice.

5.  $d = 2c + 9$   
 $c + 2d = 8$

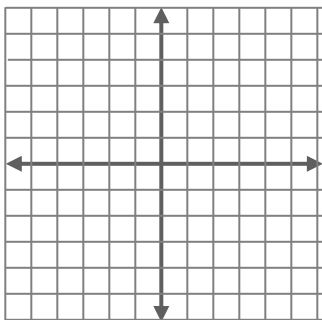
6.  $2x - 2y = -15$   
 $x = 5 - 4y$

7.  $5x - 2y = 23$   
 $5x + 2y = 17$

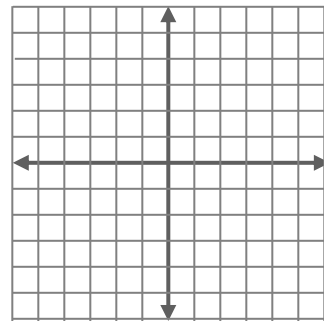
8.  $3x + 5y = 2x$   
 $x + 3y = y$

Solve each system of inequalities by graphing. Then **name one point in the shaded region and check it** in both inequalities to see that it does work.

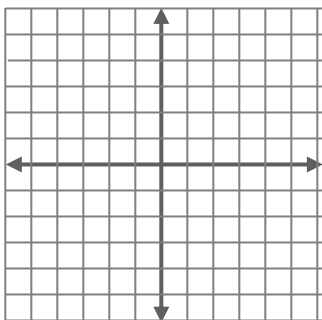
9.  $y > -x - 1$   
 $y \leq 2x + 1$



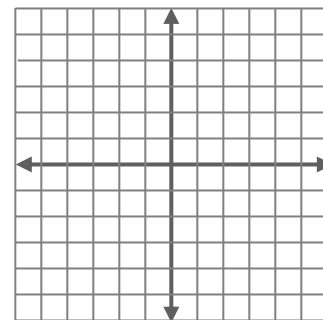
10.  $y \geq x - 3$   
 $y \geq -x - 1$



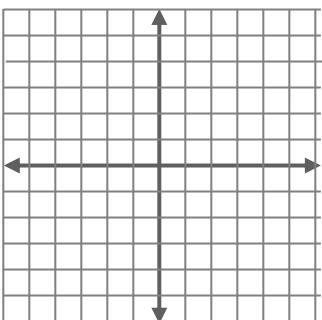
11.  $y < 2x$   
 $x + 2y \geq -10$



12.  $x \geq 1$   
 $y + x \leq 3$



13.  $2x + y < 5$   
 $2x - 5y < 25$



14.  $x - 2y \leq -4$   
 $4y < 2x - 4$

