Algebra I   Name: _____
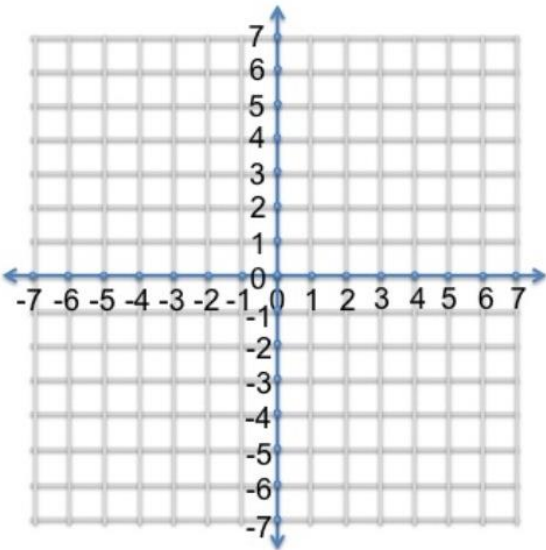
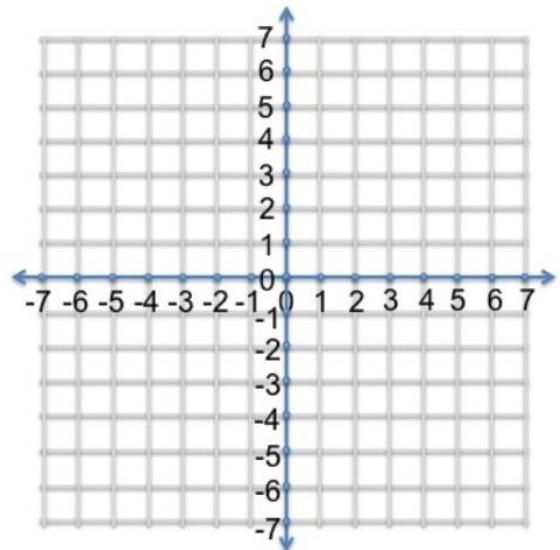**Solving Systems of Inequalities Review**

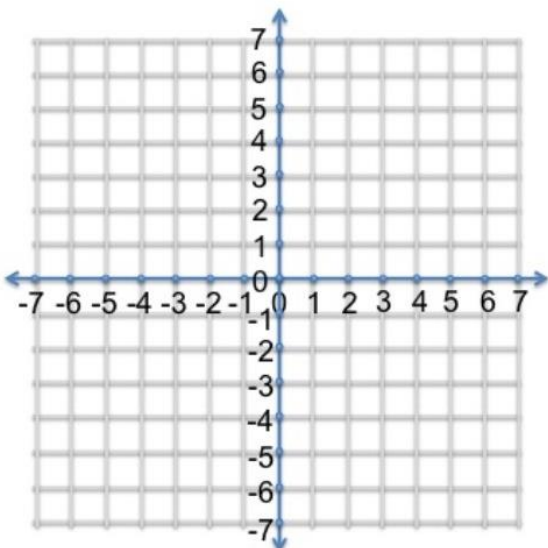**Solve each system of inequalities by graphing.**

1.) $x - 2y < 6$ 2.) $x + 2y \leq 10$
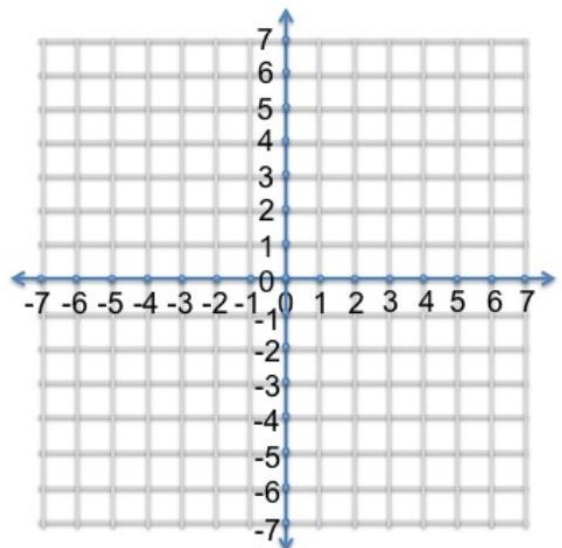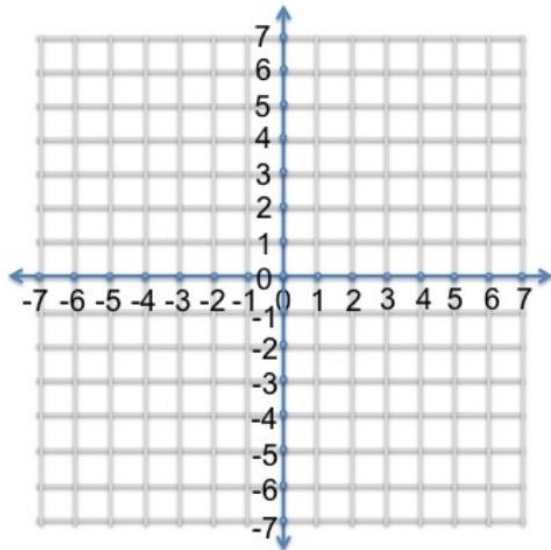 $-3x - 2y \geq 10$ $x > -3$

3.) $x - y < -5$ 4.) $2x + 2y \leq -6$
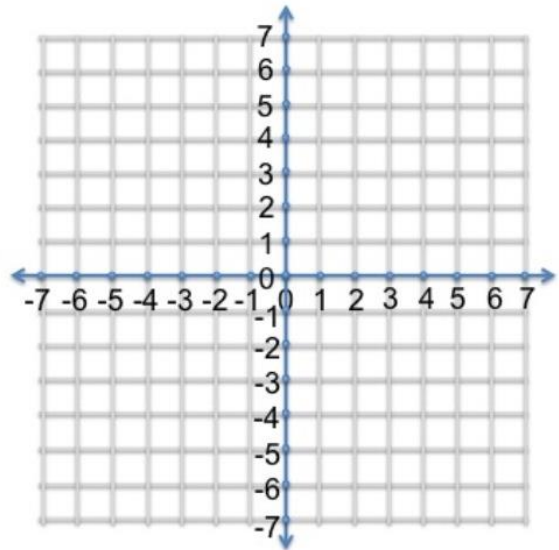 $3x + y < -2$ $3y \geq 3x + 9$

Solve each system of inequalities by graphing.

5.) $4x - 3y < 9$
    $y < 2$

6.) $6x + 2y > -6$
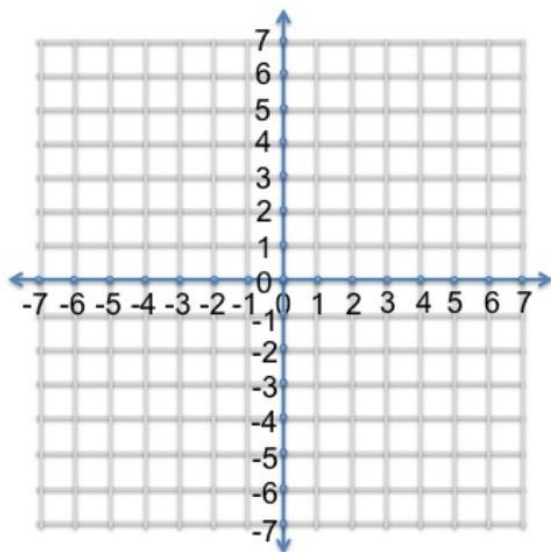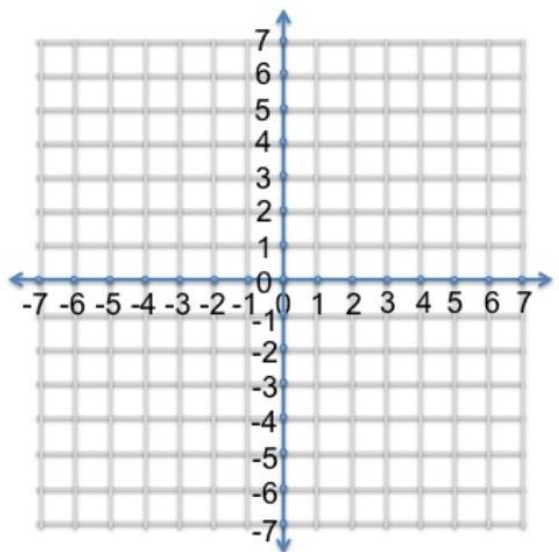 $-8x + 6y < 12$

7.) $2x + 4y < 16$
    $y \geq -3$
    $x > -1$

8.) $-5x + 2y < 6$
    $-x + 2y \leq -2$
    $y \geq -2$

Check whether the ordered pair is a solution of the inequality.

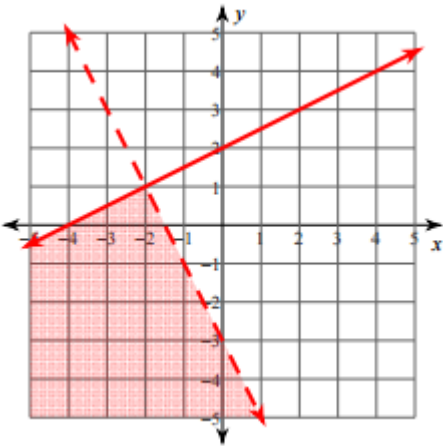9.) $y \leq 3x + 6$; $(2, -6), (-7, 4)$

10.) $2x + 5y \geq 10$; $(1, 2), (6, 1)$

11.) $2x - 3y \geq -2$; $(0, 1), (2, -1)$

12.) $4x + 5y \leq 12$; $(-3, 5), (6, -8)$

Write a system of linear inequalities with its graph.

13.)

14.)