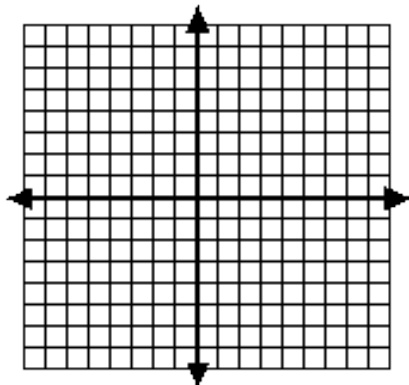


Algebra 2  
3.2 Preview

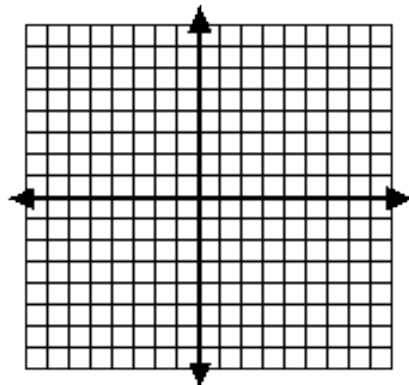
Name: \_\_\_\_\_

Sketch the solution to each system of inequalities.

1.  $y > 4x - 3$   
 $y \geq -2x + 3$



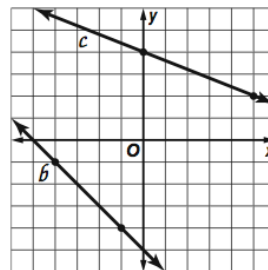
2.  $y \geq x - 3$   
 $y \geq -x - 1$



Write an equation of a line in slope-intercept form given the following information.

3. slope: -2, y-intercept: 4

4. line *c*



5. perpendicular to  $y = \frac{1}{3}x + 7$  through  $(-4, -2)$

6. parallel to  $y = \frac{1}{2}x - 4$  through  $(-6, 5)$

7. x-intercept: 18, y-intercept: 3

8. through  $(-3, 13)$  and  $(6, -5)$

**Solve.**

9.  $4|2x - 6| - 2 = 10$

10.  $3|x - 6| + 4 = 25$

11.  $-2 < 2x - 4 \leq 12$

12.  $2x - 3 \leq 3$  or  $4x > 24$

**Write the following equations in standard form.**

13.  $\frac{1}{2}y = 2x - 4$

14.  $2.4x = 5.3y - 1.2$