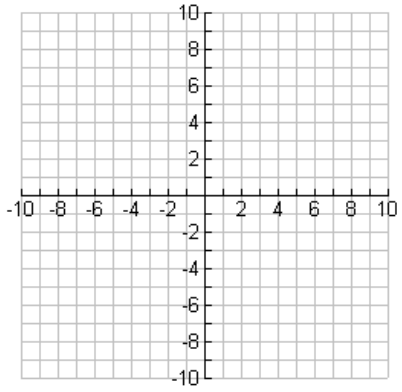
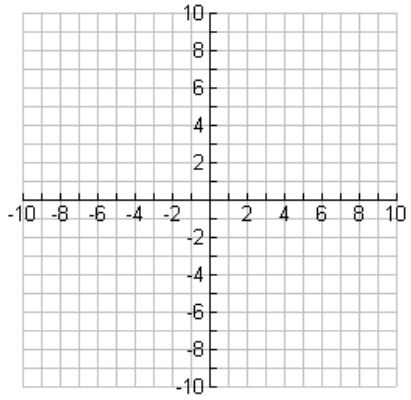
Practice Test 2.4 **Name_____**

Sketch the Graph of each equation and determine if the lines are parallel or perpendicular.

1. $y = \frac{-4}{5}x + 1$ and $y = \frac{5}{4}x - 1$

2. $y = \frac{-3}{5}x + 1$ and $y = \frac{-3}{5}x - 1$





3. Write the equation, in Slope Intercept Form, of the **line** that would go through the **point (5, 3)** and would be **parallel** to the **line y = -7x – 6**.

4. Write the equation, in Slope Intercept Form, of the **line** that would go through the **point (-1, 6)** and would be **parallel** to the **line 3x + 4y = 12**.

5. Write the equation, in Slope Intercept Form, of the **line** that would go through the **point (5, 3)** and would be **perpendicular** to the line $y = \frac{-6}{7}x + 5$.

6. Write the equation, in Slope Intercept Form, of the **line** that would go through the **point (-5, 3)** and would be **perpendicular** to the line **-2x + 3y =18**.

7. Determine if the two lines are parallel, perpendicular or just lines that intersect. You may need solve one of the equations for y to determine the slope.

   6x - 4y = 12 and $y = \frac{3}{2}x + 2$