

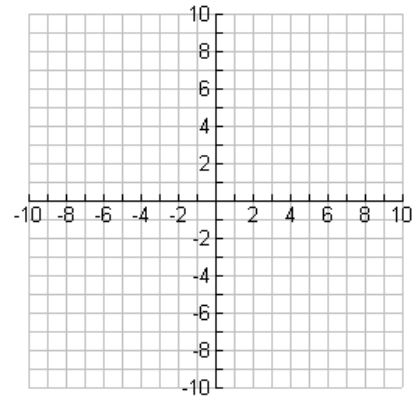
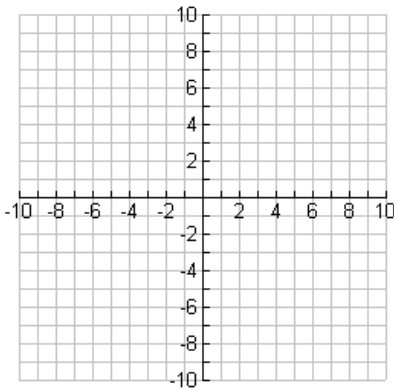
Test C 2.4

Name _____

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

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

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



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

4. Write the equation, in Slope Intercept Form, of the **line** that would go through the **point (-3, 5)** and would be **parallel** to the **line $3x + 10y = 20$** .

5. Write the equation, in Slope Intercept Form, of the **line** that would go through the **point (6, 4)** and would be **perpendicular** to the line $y = \frac{-8}{7}x + 10$.
6. Write the equation, in Slope Intercept Form, of the **line** that would go through the **point (-8, 10)** and would be **perpendicular** to the line $-5x + 8y = 8$.
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.

$$7x + 4y = 12 \quad \text{and} \quad y = -\frac{7}{4}x + 2$$