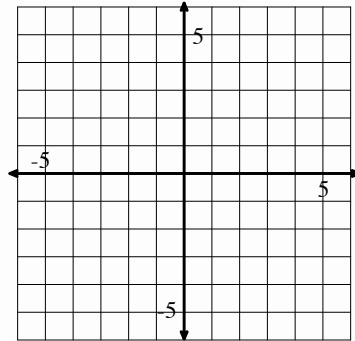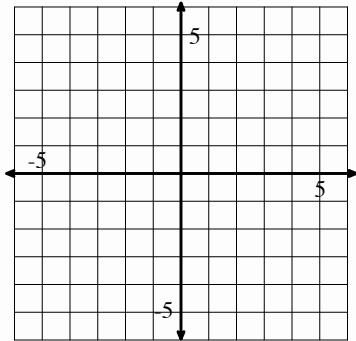Name: _____   Period: _____

A Happy Review for Quiz 1.2

1. Write the following equation in slope-intercept form then graph it, then write the equation in standard form and graph it
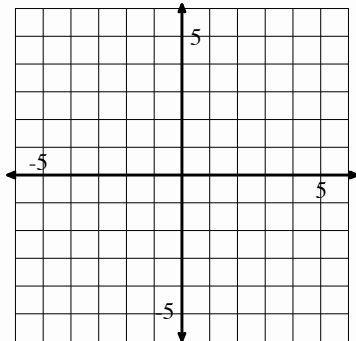
$$y = \frac{2}{3}x - 2$$

<u>Slope-Intercept Form</u>   <u>Standard Form</u>

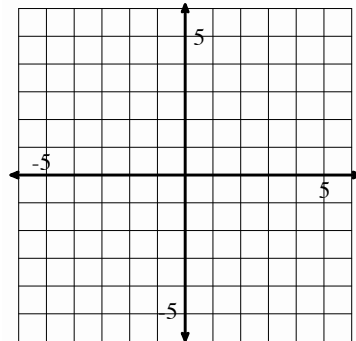2. Decide if the following is an equation or an inequality, then graph it.

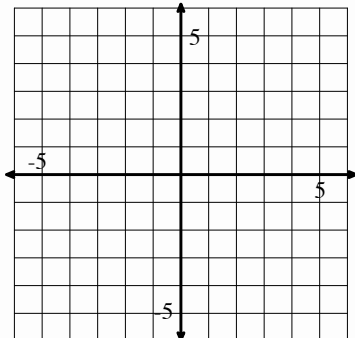$$y = -\frac{4}{5}x + 4$$ $$y \le -\frac{4}{5}x + 4$$
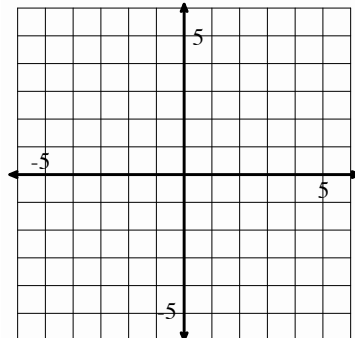
Equation or **Inequality**   **Equation** or **Inequality**

3.   Graph the following inequalities

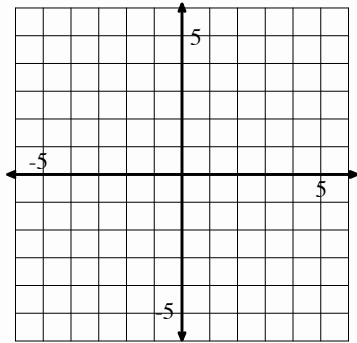$$4y + 8y < -16$$ $$-4y - 8y \ge 16$$

4. Decide if the following are a System of Equations or a System of Inequalities. Then, solve each system using substitution and by graphing.

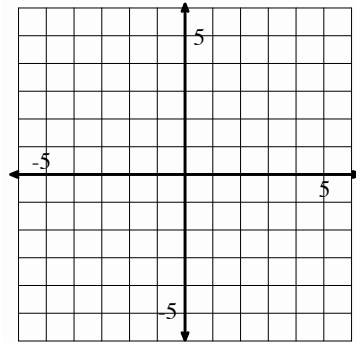$$\begin{cases} y = -\dfrac{1}{3}x + 1 \\ y = x - 3 \end{cases}$$

$$\begin{cases} y \leq -\dfrac{1}{3}x + 1 \\ y \geq x - 3 \end{cases}$$

S. of Equations or S. of Inequalities

S. of Equations or S. of Inequalities

Solve by Substitution
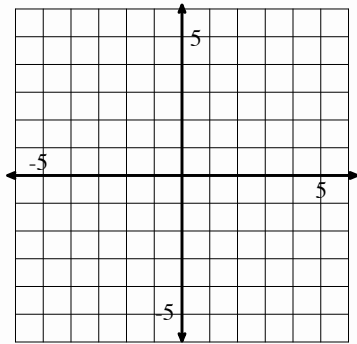
Solve by Substitution
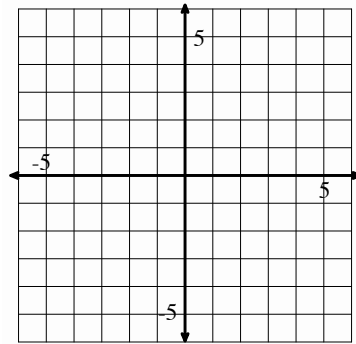

5. Solve the following System of Inequalities

$$\begin{cases} 2x + y < 4 \\ -5y + 5x > 25 \end{cases}$$

$$\begin{cases} 2x + y \geq 4 \\ -5y + 5x \leq 25 \end{cases}$$

6. Solve the following systems of equations using substitution

$$\begin{cases} y = \dfrac{2}{3}x + 2 \\ 4x + y = 16 \end{cases}$$

$$\begin{cases} y + 2x = 2 \\ -3x - 4y = 12 \end{cases}$$