SECTION 3.5: GRAPHING LINEAR EQUATIONS IN SLOPE – INTERCEPT FORM (PART 2)

Homework: _____

Learning Targets:

      3e.   Understanding of how to graph a linear function using tables, intercepts, and slope-intercept form.

      3f.   Understanding how to find the slope from a graph, a table, a word problem, and two points.

Slope-Intercept Form: _____ where m = _____ and b = _____
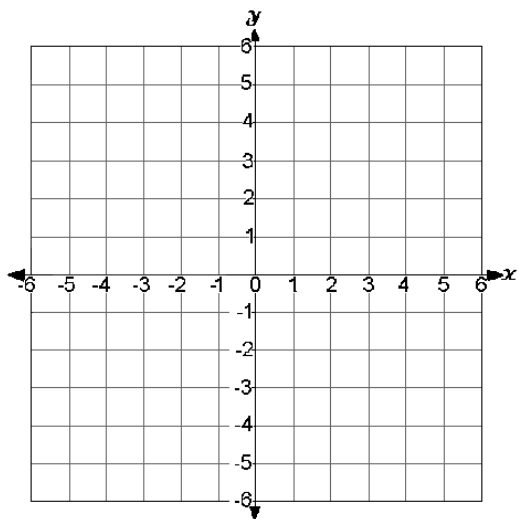
How to graph in Slope-Intercept Form

    1. Solve the equation for _____

    2. Label the _____ and _____

    3. Graph the _____ by going _____ or _____ on the _____

    4. From that point on the _____ count the slope _____ over _____

Identify the slope and y-intercept of each equation. Graph the equation.
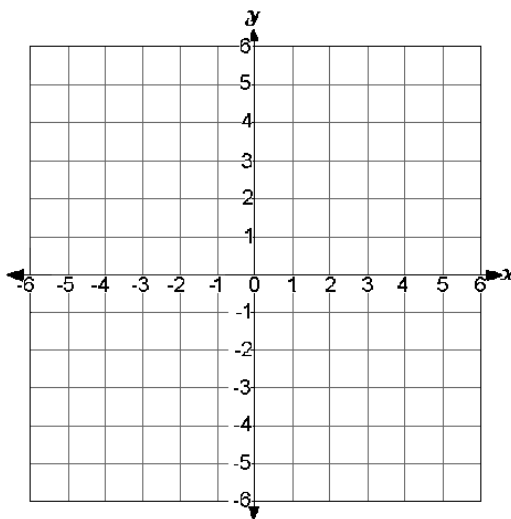
$$y = \frac{2}{3}x - 1 \qquad\qquad\qquad y = -3x + 4$$

m = _____ b = _____   m = _____ b = _____
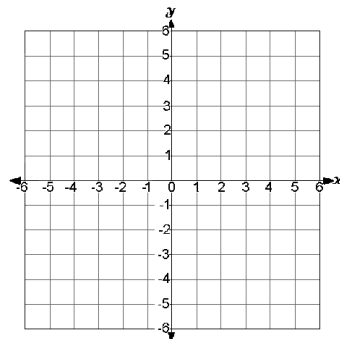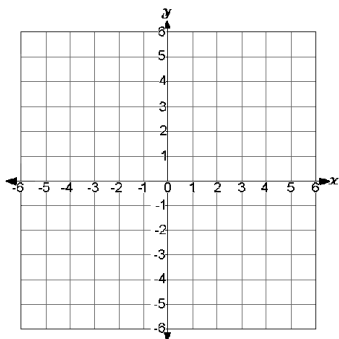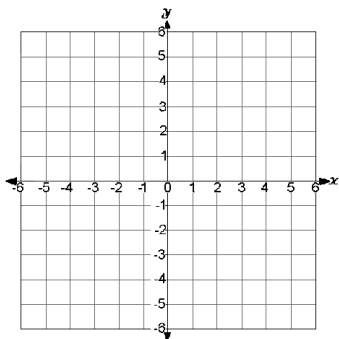
Identify the slope and y-intercept for each function. Graph each function.

1. $y = 2x + 3$

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

3. $y = -x + 2$

Solve each equation for y. Identify the slope and y-intercept of the equation.

4. $2x + y = 4$

5. $x - 3y = -6$

6. $4x - y = 0$