

\*Objective:

\*Point-Slope Form:

**Got It?** 2. a. A line passes through  $(-5, 0)$  and  $(0, 7)$ . What is an equation of the line in point-slope form?  
 b. **Reasoning** What is another equation in point-slope form of the line through the points  $(-5, 0)$  and  $(0, 7)$ ? Explain.

\*Standard Form of a Linear Equation:

**Got It?** 3. What is an equation of the line  $y = 9.1x + 3.6$  in standard form?

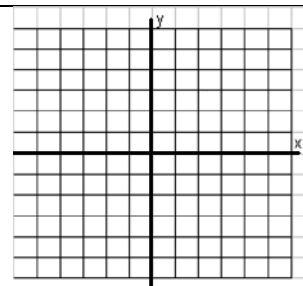
\*Writing Equations of Lines

\*Slope-Intercept Form

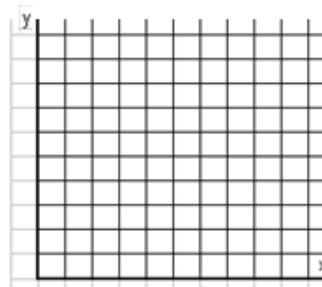
\*Point-Slope Form

\*Standard Form

**Got It?** 4. What are the intercepts of  $2x - 4y = 8$ ? Graph the equation.



- Got It?** 5. The office manager of a small office ordered 140 packs of printer paper. Based on average daily use, she knows that the paper will last about 80 days.
- What graph represents this situation?
  - What is the equation of the line in standard form?
  - How many packs of printer paper should the manager expect to have after 30 days?



**\*Parallel and Perpendicular Lines**

\*Parallel Lines:

\*Perpendicular Lines:

\*Diagram

\*Diagram

**Got It?** 6. What is the equation of each line in slope-intercept form?

- the line parallel to  $4x + 2y = 7$  through  $(4, -2)$
- the line perpendicular to  $y = \frac{2}{3}x - 1$  through  $(0, 6)$

**Inclass:** p. 86 #20, 28, 30, 34

**Homework:** p. 86 #11-35(odd)

**Interactmath:** #11, 17, 21, 22, 27, 30, 32, 33