

Welcome to Class!!

**Quiz
tomorrow!**

You will need:

- ~ Pencil
- ~ Highlighter
- ~ Ruler
- ~ Binder
- ~ Vocabulary Sheet

**Homework:
Quiz Review 1a**

Stick Quiz

8/30/18

Calculate the slope given two points.

(x_1, y_1) and (x_2, y_2)
 $(3, -7)$ and $(-1, 4)$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{11}{-4}$$

Separate page: Put after today's Stick Quiz
and Examples

Example - Graphing:

$$\text{Graph } f(x) = \begin{cases} x - 2 & \text{if } x < -1 \\ x + 3 & \text{if } x \geq -1 \end{cases}$$

Step 1: Graph $f(x) = x - 2$ for $x < -1$

Step 2: Graph $f(x) = x + 3$ for $x \geq -1$

$$y = x - 2 \text{ for } x < -1$$

$$y = -1 - 2$$

$$y = -3$$

$$\bullet (-1, -3)$$

$$m = \frac{1}{1} = \frac{\text{rise}}{\text{run}}$$

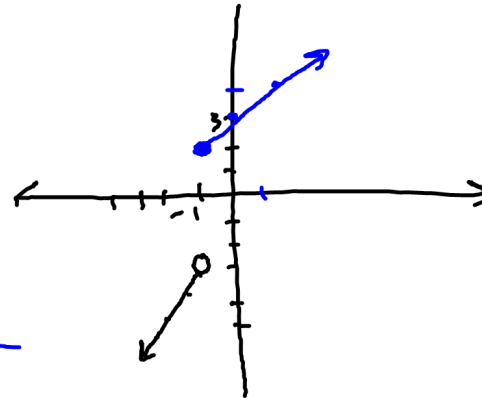
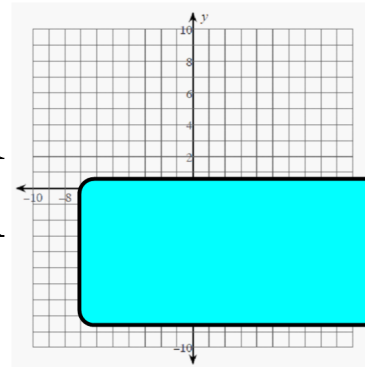
$$y = x + 3 \text{ if } x \geq -1$$

$$y = -1 + 3$$

$$y = 2$$

$$\bullet (-1, 2)$$

$$\text{slope} = \frac{1}{1}$$



$$\textcircled{4} \quad tx - ux = 3t \quad \text{for } x$$
$$\frac{x \cdot (t-u)}{t-u} = \frac{3t}{t-u}$$

$$x = \frac{3t}{t-u}$$

Now what?

Work on:

- Quiz Review

Must be completed by:

- Friday 8/31

If you finish early:

- Create and exchange your own piecewise functions

I can:

- 1) Evaluate step functions functions
- 2) Graph step functions