# Warmup 11/(Sum of the first five positive whole numbers) Created by Mr. Lischwe

Convert this equation into slope-intercept form:

$$8 + y = \frac{1}{3}x$$

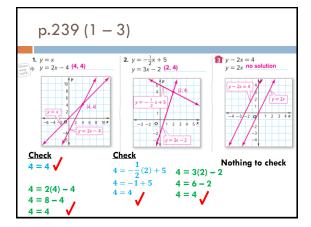
$$y = \frac{1}{3}x - 8$$

2. What does the graph of y = -4 look like?

Horizontal line straight across through -4 on the y-axis

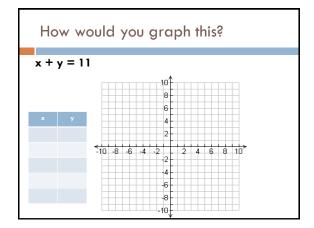
3. What is the slope of the line with the equation y = 10 - x?

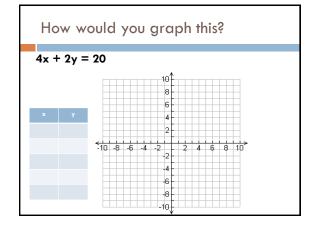
-1



### Story Problem: Solve by Graphing

Bowl-o-Rama charges \$3 per game plus \$2 for shoe rental, and Bowling Pinz charges \$2 per game plus \$5 for shoe rental. For how many games will the cost to bowl be the same at both places? What is the cost?





#### **Standard Form:**

$$Ax + By = C$$

(Basically, standard form is when  $\boldsymbol{x}$  and  $\boldsymbol{y}$  are on the same side)

#### **Graphing Standard Form**

□ Graph standard form by figuring out (x, y) pairs that make the equation true

$$4x + 2y = 20$$

If 
$$x = 3$$
, what is y?

If 
$$x = 1$$
, what is y?

If 
$$x = 0$$
, what is y?

If 
$$y = 0$$
, what is x?

## **Graphing Standard Form**

□ Graph standard form by figuring out (x, y) pairs that make the equation true

$$4x + 2y = 20$$

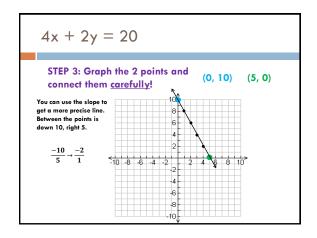
$$4(0) + 2y = 20$$

$$y = 10$$

(0, ?)

$$4x + 2(0) = 20$$

$$x = 5 \tag{5, 0}$$



# Classwork/Homework

- □ Solving Systems by Graphing Worksheet
- **□** BE PRECISE
- □ LOOK OUT FOR POSITIVE/NEGATIVE SLOPES!