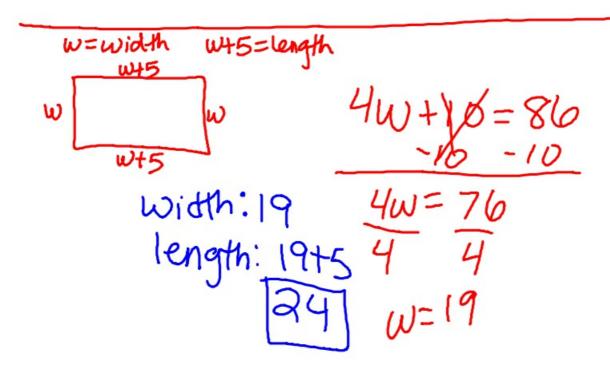
# Warm Up 11/1/18 Half sheet (Pick up from the stool)

3 Con. 
$$44 \pm 3$$
 Sum-363  
 $X=1^{st}$   $3X+6=63$   
 $X+2=2^{st}$   
 $X+4=3^{st}$ 

$$\frac{14x - 8y = 24}{14x} + 4x$$

$$\frac{18y = 4x + 24}{18x - 8}$$

$$\frac{14x - 8y = -1}{18x - 8}$$



### **FINDING SLOPE REVIEW**

Source	Procedure	Example
Graph	Use the formula: Rise Run	31
	Rise→ change in the	
	Start at a point further <u>Rff</u> , rise <u>r</u> or <u>to match the <u>reiold</u> of the second</u>	
	point. Then run to the Second if you can!!	
5		
$1/\sqrt{1}$		
		$\supset$

Two Points

Use the formula:  $\frac{Y_2 - Y_1}{X_2 - X_1}$ Then Simplify if you can!!

Ordered pairs:  $(X_1, Y_1)$  and  $(X_2, Y_2)$  (-5, 12) & (9, -20) (-5, 12) & (9, -20) (-5, 12) & (9, -20) (-5, 12) & (9, -20) (-5, 12) & (9, -20)

$$\frac{-4}{-6} = \boxed{\frac{2}{3}}$$

9

3

-3

2

-2

-6

-10

Equation

**b** format

- 1. Move the \_\_\_\_\_\_\_ from the left side to the right side of the equation \_\_\_\_\_\_ by ALL.
- 2. Divide by the coefficient in front of by ALL
  - 3. Simplify if you can!!

6x - 2y = 18

# Point - Slope Formula

# $y - y_1 = m (x - x_1)$

What does it stand for?

y:

 $y_1$ : y-value from ordered pair

m: slope

**X<sub>1</sub>:x-value from your ordered pair** 

X:

1. Plug in the ordered pair for  $X_1$  and  $Y_1$  and the slope in for m

2. Solve the equation for Y

(-4, 6) and m = -3  

$$y-y_1 = m(x-x_1)$$
  
 $y-(y) = -3(x+4)$   
 $y-y_2 = -3x-12$   
 $y=-3x-6$ 

(12, -5) and m = 1/2

$$y-y_{1}=m(x-x_{1})$$

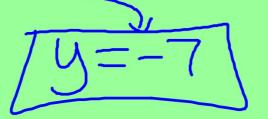
$$y+5=\frac{1}{2}(x-1/2)$$

$$y+5=\frac{1}{2}(x-1/2)$$

$$y+5=\frac{1}{2}(x-1/2)$$

$$y=\frac{1}{2}(x-1/2)$$

$$(-3, -7)$$
 and  $m = 0$ 



(-2)9) and m is undefined.

$$X=-2$$

- 1. Find the slope from the 2 points
- 2. Use the point-slope formula to plug in the X<sub>1</sub> and Y<sub>1</sub> from 1 point and the slope

(-7, 4), and (12, -3)

$$0 = \frac{3-4}{12+7} = \frac{-7}{19}$$

(6, -3), and (-9, 11)

$$1 \frac{11+3}{-9-6} = \frac{14}{15} = -\frac{14}{15}$$

2 
$$y-y=m(x-xi)$$
  
 $y+3=-14(x-6)$   
 $y+3=-14x+84$   
 $y+3=-14x+84$   
 $y+3=-14x+84$ 

$$y = -\frac{14}{15} \times +\frac{39}{15}$$

(-2, 6), and (-2, 9)

Same X-Values

$$m = \phi$$

(15, -6), and (7, -6)

$$m=0$$

$$\sqrt{y=-6}$$

