Algebra	<b>Equations</b>	of	Lines	Day	4
warm up					

1. Explain in words how to find the slope of a line if you know 2 points on the line.

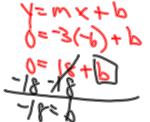
To And slupe use

2. Find the slope of the line through (-1, 5) and (3, 8).

$$M = \frac{8-5}{3-7} = \frac{3}{4}$$

3. Write an equation for the line with a slope of -8 and a y-intercept of 3.

For numbers 4 & 5, write an equation for each line with the given information.



## **Algebra Equations of Lines Day 4**

When we are given two points, we first have to find \_

Then we have to plug in Slope and our X + Y - INK respt (b). Lastly we have to plug

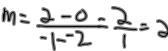
## **Examples**

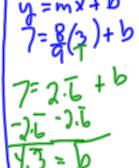
Write an equation for the line that passes through the following points.

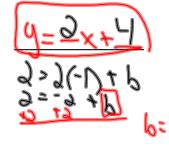
1. (-2, 0) and (-1, 2)

2. (-6, -1) and (3, 7)

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3. A piece of pizza with 6 grams of fat has 255 calories. A piece of pizza with 13 grams of fat has 325 calories. Write an equation that represents how many calories a slice of pizza has based on how many grams of fat it contains.

$$m = \frac{315 \cdot 155}{13 \cdot 6} = \frac{70}{7} \quad y = \frac{10}{10} \times \frac{195}{195}$$

$$= 10$$

$$= 315 = 10(15) + 10$$

$$= 130 \cdot 130$$

$$= 195 = 10$$

Assign 7-6 1-4, 7, 11-13, 16, 17