ALGEBRA 1

JANUARP 25, 2012

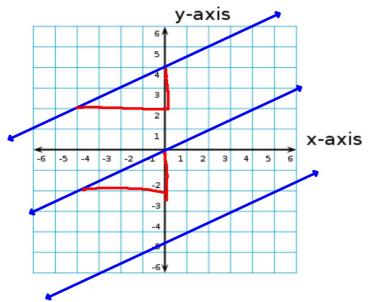
GET OUT POUR HOMEWORK - MELON WORKSHEET

$$|6| \times +3y = -18$$

$$- \times +3y = -18$$

1/25 - Equations of lines parallel to one line through another point.

What does parallel mean?
The live's never intersect



Parallel lines have the <u>same slope</u>.

What is the slope of this line?

$$y = 3x - 1$$

$$m = 3$$

What is the slope of a line parallel to that line?

What is the slope of this line?

$$y = -\frac{1}{2}x + 4$$

$$m = \frac{1}{2}$$

What is the slope of a line parallel to that line?

Write the equation of the line that goes through the given point and is parallel to the given line.

$$(2,-3)$$
 $y = -4x + 3$

$$y = m \times + b$$

 $-3 = -4.2 + b$
 $-3 = -8 + b$
 $+8 + 8$
 $5 = 6$

- 1. Write the formula
- 2. Find *m* from the equation
- 3. Substitute x, y and m
- 4. Solve the equation for b
- 5. Write the equation
- 6. Substitute *m* and *b*

$$\frac{y = mx + b}{y = 4x + 5}$$

$$(-1,4) y = 2x - 5$$

$$y = m \times + 6$$

$$4 = 2 \cdot -1 + 6$$

$$4 = -2 + 6$$

$$+2 \cdot -2 + 6$$

$$+3 \cdot -2 \cdot 6$$

$$(3,1) \quad y = -2x + 4$$

$$(-4,-2) \quad y = -k + \frac{2}{5}$$

$$y = -k + \frac{2}{5}$$

$$(1,-2) y = \frac{2}{3}x - 4$$

$$m = \frac{2}{3}$$

$$y = m \times + 0$$

$$-2 = \frac{2}{3} \cdot 1 + 6$$

$$-2 = \frac{2}{3} \cdot 1 + 6$$

$$-2 = \frac{2}{3} + 6$$

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

HOMEWORK

Pink WORKSHEET 2

DUE Thursday