Wednesday, December 5, 2012

- TISK Problems & No MM
- Homework Check
- Lesson 11-3: Slope-Intercept Form
- Homework: Slope-Intercept Form worksheet

TISK Problems 1) Solve for y: -3x + 2y = 20

2)Find the LCM of 18 and 21.

3)Simplify: -3x + 4(12 - 8x)

Homework Check

1)
$$m = -\frac{1}{4}$$

2) $m = \frac{2}{3}$
3) $m = -\frac{1}{1} = -1$
4) No Slope/Undefined
5) $m = 0$
6) $m = \frac{5}{3}$
7) $m = -\frac{1}{2}$

8)
$$m = -\frac{3}{1} = -3$$

9) $m = -\frac{6}{5}$
10) $m = \frac{4}{5}$
11) $m = 0$
12) $m = -\frac{3}{4}$
13) $m = \frac{2}{1} = 2$
14) No Slope/Undefined

§11-3 Slope-Intercept Form

• When an equation is written in slope-intercept form it always looks like this:

y = mx + b

• Where (*x*, *y*) are the coordinates of any point on the line,

o *m* stands for slope (how you <u>m</u>ove),

• and *b* stands for the *y*-intercept (where you <u>b</u>egin on the *y*-axis).

Write the equation in slope-intercept form.

$$y = \frac{x+3}{2}$$

Distribute!

$$y = mx + b$$

$$y = \frac{1}{2}x + \frac{3}{2}$$

So what is the slope of this equation?

And what is the *y*-intercept of $\frac{3}{2}$

2

$$y = mx + b$$

$$2x - 4y = 16$$

$$-2x - 2x$$

$$-\underline{4y} = -\underline{2x + 16}$$
$$-4 \qquad -4$$

So what is the slope of this equation?

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

And what is the *y*-intercept of this equation? -4

2

Write the equation in slope-intercept form.

$$y = -4$$
$$y = mx + b$$
$$y = 0x + (-4)$$

y = -x + 2y = mx + by = -1x + 2

So what is the slope of this equation?

And what is the *y*-intercept of this equation?

So what is the slope of this equation?

And what is the *y*-intercept of this equation?

-4



