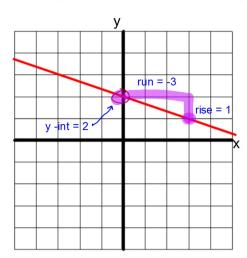
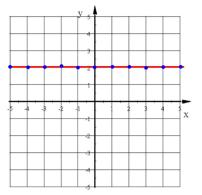
Write the equation of this line in Slope-Intercept Form:



$$h = -\frac{1}{3}$$
 $h = -2$

Write the equation of this line in Slope-Intercept Form

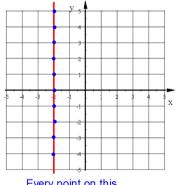


The slope is zero and the y-intercept is 2:

$$y = 0x + 2$$

Every point on the line has a y-coordinate of 2!

Write the equation of this line.



Slope-Intercept Form:

Can't be written in this form

Point-Slope Form:

Can't be written in this form

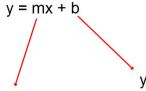
Every point on this line has an x-coordinate of -2!



Norma won a \$100 prize. Her dad put it in a savings account for her then she added \$5 each week to the savings account. Model this situation with an equation.

EQ: 4=5x+100

y=Amount & X= #weeks When slope-intecept models a real situation



y-intercept: Initial amount

Slope:

Rate of Change in the situation

What situation could be modeled by this equation?

x = # of weeks.

y = Total # of cats after x weeks.

You can now finish Hwk #26

Sec 6-2

Pages 294-295

Problems 6, 7, 22-25, 46, 56, 58, 70, 71

Due Thursday

Find the y-intercept and x-intercept of this line:

$$y = 2x + 3$$

Since this line is written in Slope-intercept Form the y-intercept is +3

Since an x-intercept is a point on the x-axis y must be zero. One way to find x-intercepts is to make y=0 and just solve for x:

$$0 = 2x + 3$$

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

$$X-1n+=-\frac{3}{2}$$
 or -1.5

Find the slope and y-intercept of each line.

$$y - 4 = -2(x + 8)$$



change to Slope-Intercept Form

Or make x=0 and find y.

Write an equation to model each situation.

1. You have 75 songs on your i-pod right now and plan to download 4 more each week.

$$T = 4w + 75$$

T = Total # of songs after

w weeks.

w = # of weeks

At the ballgame you bought 3 hot dogs and 4 Cokes for \$25.25

$$3H + 4C = 25.25$$

$$\frac{2}{3x} - 9y = 18$$

To find both the slope and y-intercept you could change this equation into Slope-Intercept Form:

$$3x - 9y = 18$$

 $-3x$

$$-9y = 18 - 3x$$

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

$$m = \frac{1}{3}$$

$$b = -2$$

If all you wanted to find was the y-intercept you could replace x with zero and find y.

$$-9y = 18$$

$$y = -2$$