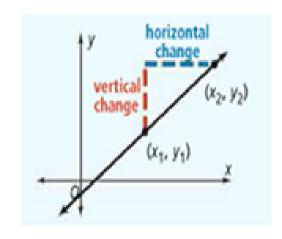
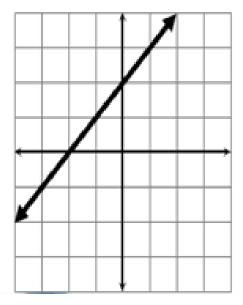
2.3 Linear Functions and Slope-Intercept Form

Slope:

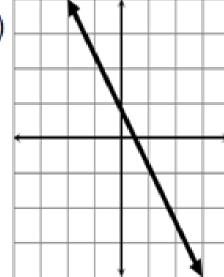


Ex.4 Find the slope of the line shown below.

a)



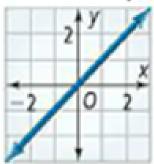
<u>b</u>)





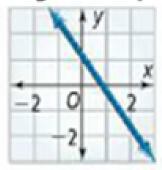
Concept Summary Slope of a Line

Positive Slope



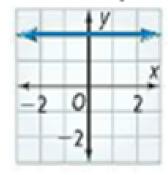
Line rises from left to right

Negative Slope



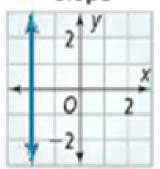
Line falls from left to right

Zero Slope



Horizontal line

Undefined Slope



Vertical line

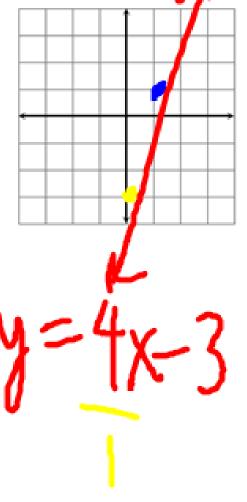
SLOPE-INTERCEPT FORM:
$$y = mx + b$$

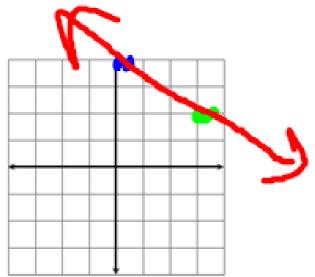
$$b = y - intercept$$

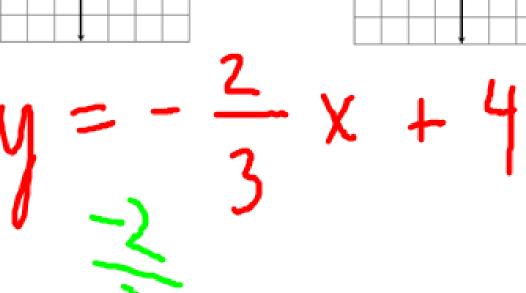
$$\frac{y = mx + b}{y - intercept}$$

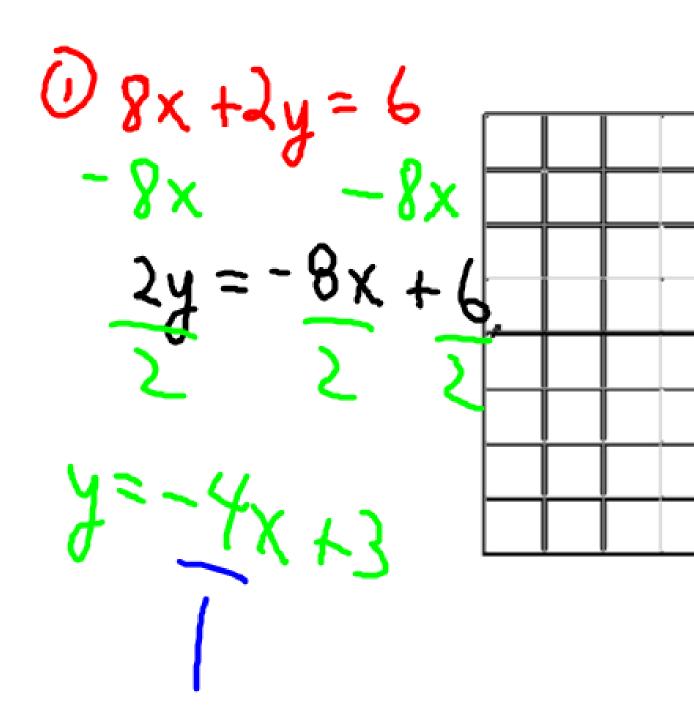
$$y = m(0)$$

$$y = m(0) + b$$







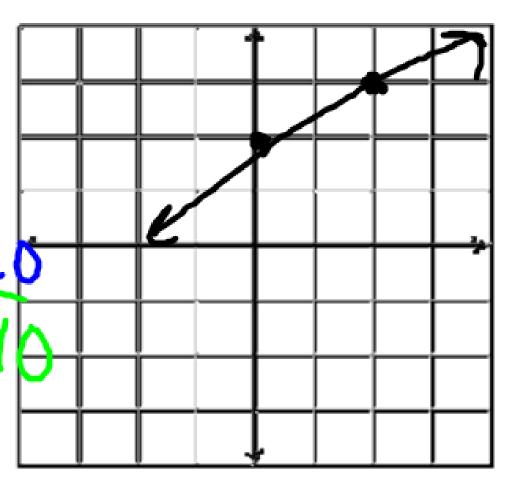


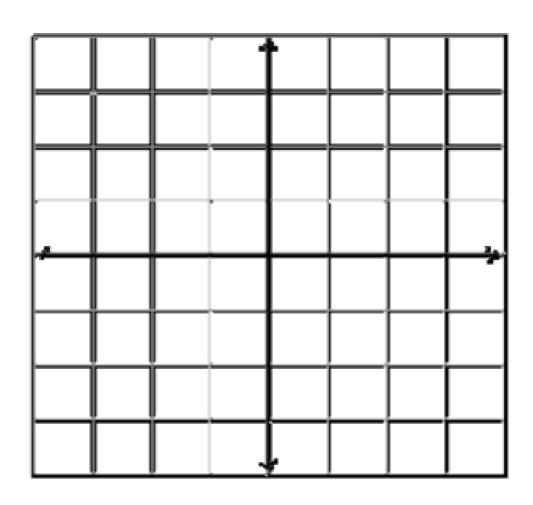
$$G_{5x-10y} = -20$$

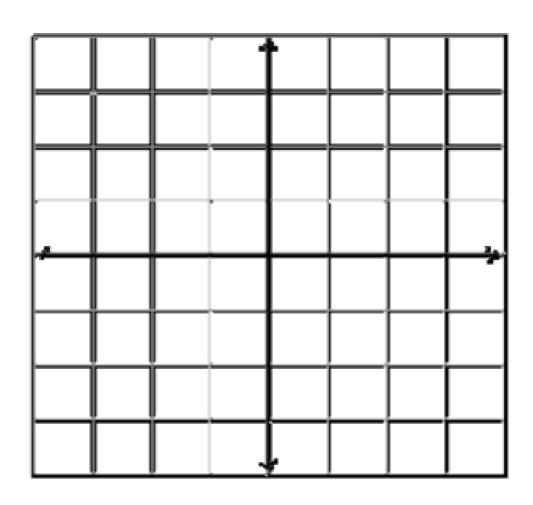
$$-6x - -5x$$

$$-10y = -6x - 2$$

$$-10 - 10$$



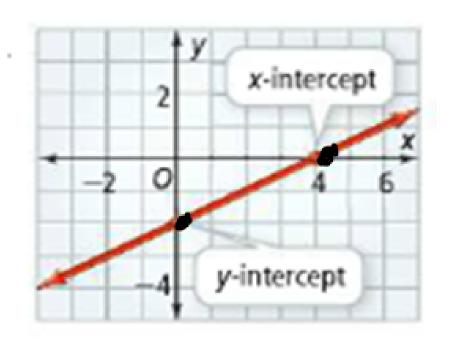




STANDARD FORM:

$$Ax + By = C$$

where A and $B \neq 0$.



y-int
$$(0,y)$$

 $x-int(x,0)$

$$3x-\lambda y=6$$

$$y=h$$

$$y=h$$

$$y=-3$$

$$x-in+$$

$$3x=b$$

$$x=b$$

$$x=b$$

