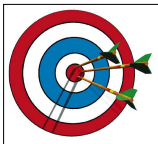


Slope Intercept Form

Today's Learning Targets:

5.6 - I can graph a line by using slope-intercept form (y=mx+b).
5.7 - I can write an equation in slope-intercept form from a graph.
5.8 - I can explain what m and b represent on the graph from the equation y=mx+b.

Slope Intercept Form

$y = mx + b$

= —

" " " "

What is the **slope** (m) and **y-intercept** (b) of the equations?

$y = 5x - 2$	$m =$	$b =$
$y = -\frac{1}{2}x + \frac{2}{3}$	$m =$	$b =$
$y = 14 - 3x$	$m =$	$b =$
$y = 4x$	$m =$	$b =$
$y = -7$	$m =$	$b =$

What is the equation for a line with slope $-4/5$ and y-intercept 7?

$y = __x + __$

What is an equation of a line with slope $3/2$ and y-intercept -1?

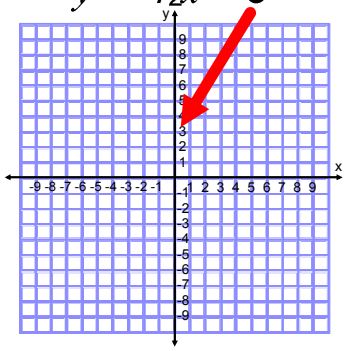
$y = __x __$

$y = mx + b$

MOVE BEGIN

Graph

$y = -1/2x + 3$

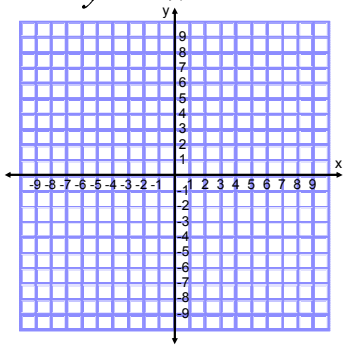


$y = mx + b$

MOVE BEGIN

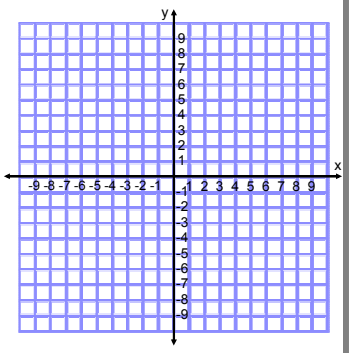
Graph

$y = 2x + 1$



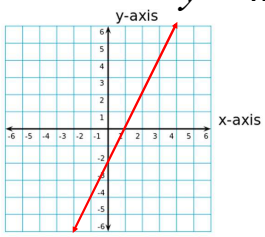
Graph the equation using slope and intercept.

$y = -x + 2$



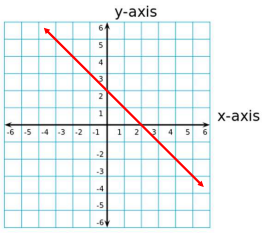
Write an equation for the lines.

$y = mx + b$



$m =$ ___

$b =$ ___ $y =$ _____



$m =$ ___

$b =$ ___ $y =$ _____