

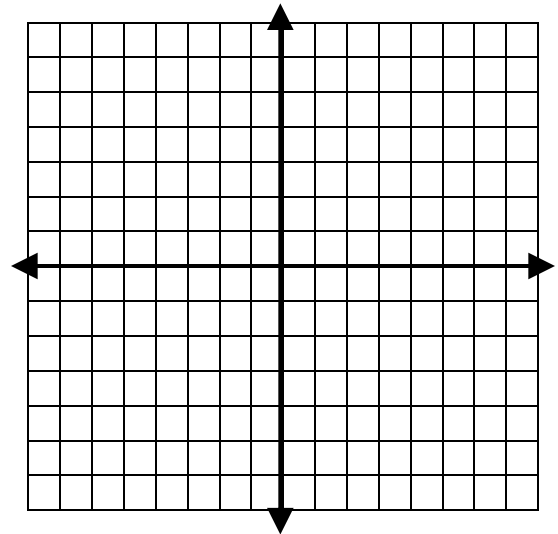
Algebra RH

Essential Questions: What is slope-intercept form? How is it used to graph a line?

Do Now: Using the intercept method, graph the following 2 equations and then complete the table below.

1. $y + 3 = x$

2. $x + 3y - 3 = 0$



Original Equation	Slope	y-intercept	Equation in $y = mx + b$ form
$y + 3 = x$			
$x + 3y - 3 = 0$			

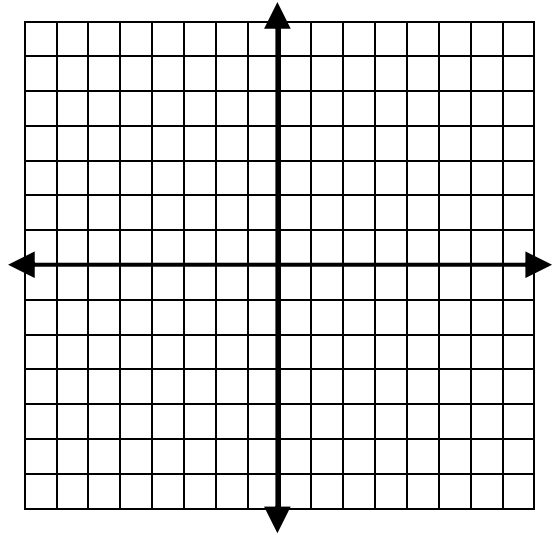
SLOPE-INTERCEPT FORM OF AN EQUATION

$$y = mx + b$$

Graphing Equations using the Slope-Intercept Method

1. Put the equation in " $y = mx + b$ " form if it is not already.
2. Start by plotting the y-intercept $(0, b)$ as your first point.
3. Use the slope $\frac{\text{rise}}{\text{run}}$ (m) to plot your next point.
4. Draw a line through the two points.

Example: Graph $3x + y = 2$ using the slope-intercept method.



On a piece of graph paper, graph the following equations using the slope-intercept method.

1. $y = -\frac{4}{5}x + 3$

2. $2x + 8 = 4y$

3. $x + y = -1$

4. $-2x + 8 = 4y$