Linear Function

A relationship between two variable, that creates a line

Slope-Intercept Form

$$y = mx + b$$

$$m = slope$$

 $b = y-intercept$

Point-Slope Form

$$y = mx + b \qquad y - y_1 = m(x - x_1)$$

$$m = slope$$

 $(x_1, y_1) = Point$

Standard Form

$$Ax + By = C$$

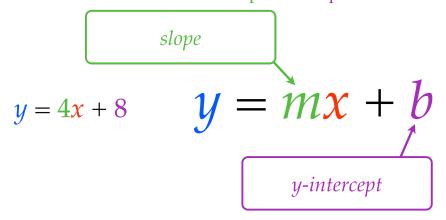
A is positive

A, B, and C are integers

Linear Function

A relationship between two variable, that creates a line

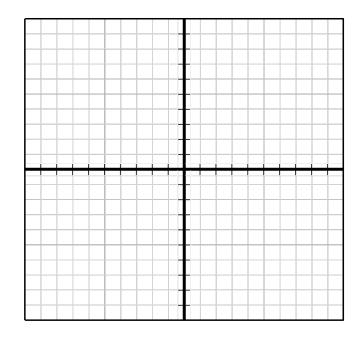
Slope-Intercept Form



$$4y + 4x = 8$$

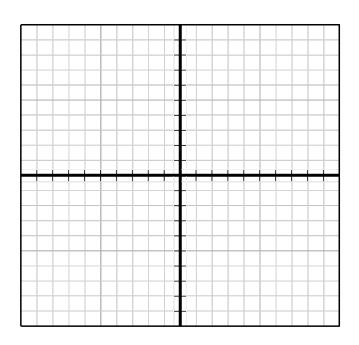
Graphing Lines in Slope-Intercept Form y = mx + b

$$y = 2x - 4$$



Graphing Lines in Slope-Intercept Form y = mx + b

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



Finding x and y intercepts of a line.

$$y = 2x - 4$$

To find x-intercept set y = 0, solve for x

To find *y*-intercept set x = 0, solve for y