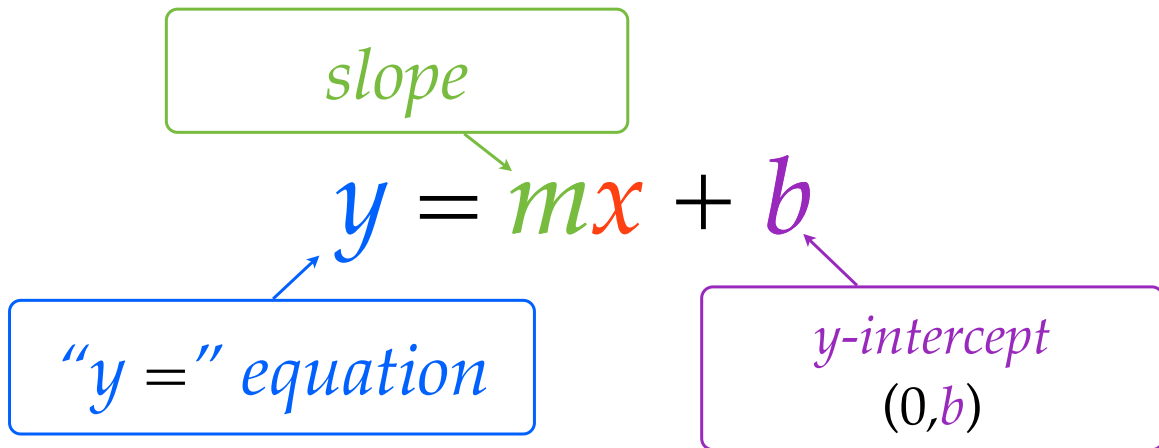


## Slope-Intercept Form of a Line



Determine the **slope** and **y-intercept** of the following equations

$$y = mx + b$$

$$y = 3x + 4$$

$$y = -2x - 6$$

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

$$y = -x$$

Determine the **slope** and **y-intercept** of the following equations

$$y = mx + b$$

$$3x + 2y = 6$$

Given the **slope** and **y-intercept**, write the following lines in **slope-intercept** form.

$$y = mx + b$$

Slope,  $m$ : 2  
y-intercept,  $b$ : 7

Slope,  $m$ : -3  
y-intercept,  $b$ : -4

Slope,  $m$ : 1  
y-intercept,  $b$ : 1

Given the **slope** and **y-intercept**, write the following lines in **slope-intercept** form.

$$y = mx + b$$

Slope,  $m$ : -1  
**y-intercept**,  $b$ : 0

Slope,  $m$ : 0.3  
**y-intercept**,  $b$ : 1.4

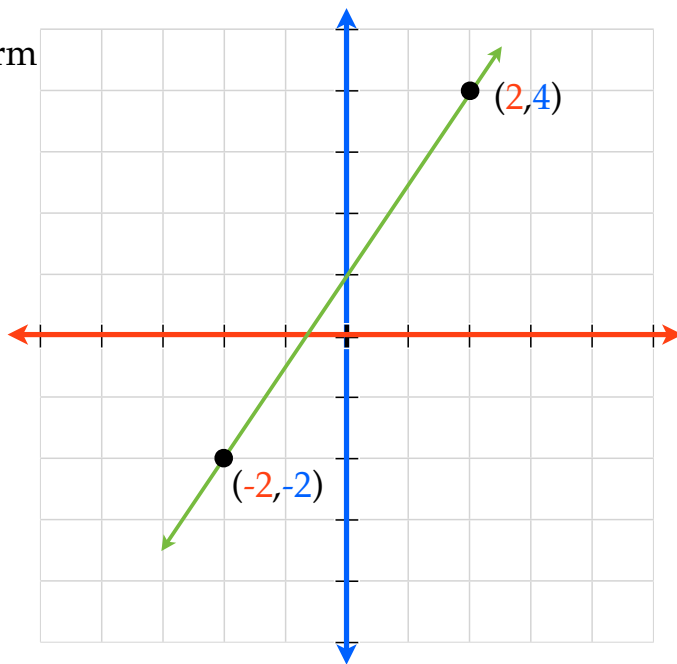
Slope,  $m$ :  $\frac{1}{2}$   
**y-intercept**,  $b$ : -4

Write the following lines in **slope-intercept** form

$$y = mx + b$$

Slope,  $m$

**y-intercept**,  $b$

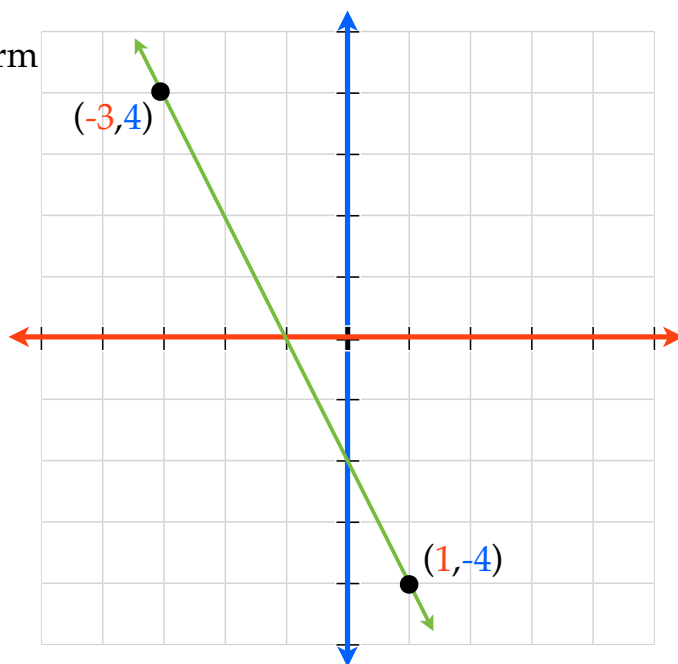


Write the following lines in slope-intercept form

$$y = mx + b$$

Slope,  $m$

$y$ -intercept,  $b$



Slope-Intercept Form of a Line

*slope*

$$y = mx + b$$

*"y =" equation*

*y-intercept*  
 $(0, b)$