

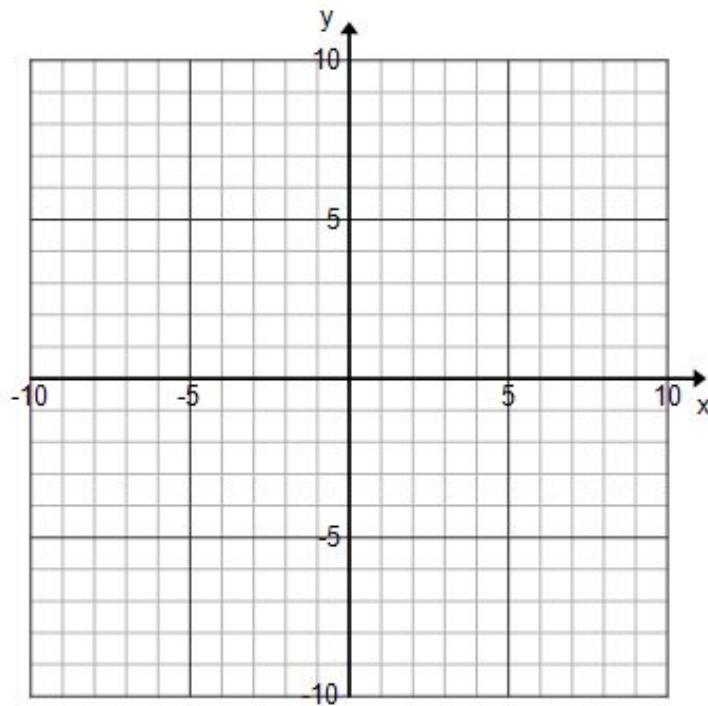
Two classes ago we used Desmos to graph lines. We looked at how the steepness (slope) of the line changed and where the line crossed the  $y$ -axis ( $y$ -intercept).

$$y = mx + b$$

Today, we will graph equations by hand!

Example 1: Graph the following equations on the grids provided.

a)  $y = \frac{2}{3}x - 5$        $y = \text{intercept } (b) :$   
rise =      run =      slope ( $m$ ) =



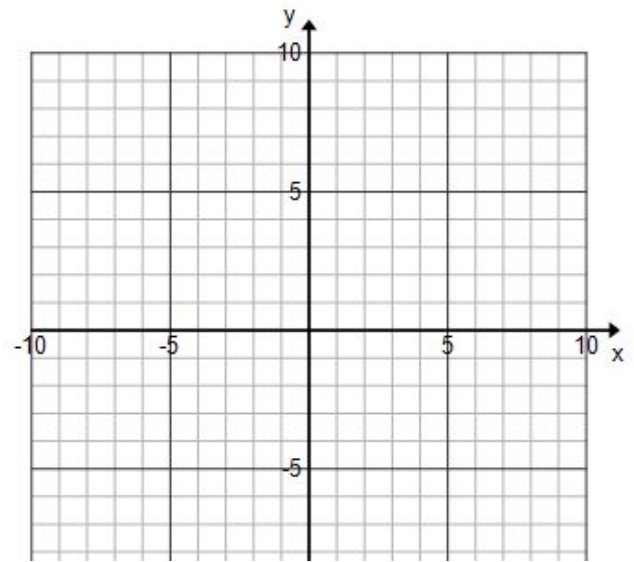
Step 1 :

Step 2 :

Step 3 :



b)  $y = -\frac{1}{4}x + 8$   
 $y =$  intercept ( $b$ ) :  
rise =            run =  
  
slope ( $m$ ) =



c)  $y = 3x$   
 $y =$  intercept ( $b$ ) :  
rise =            run =  
  
slope ( $m$ ) =

d)  $y = 7$   
 $y =$  intercept ( $b$ ) :  
rise =            run =  
  
slope ( $m$ ) =

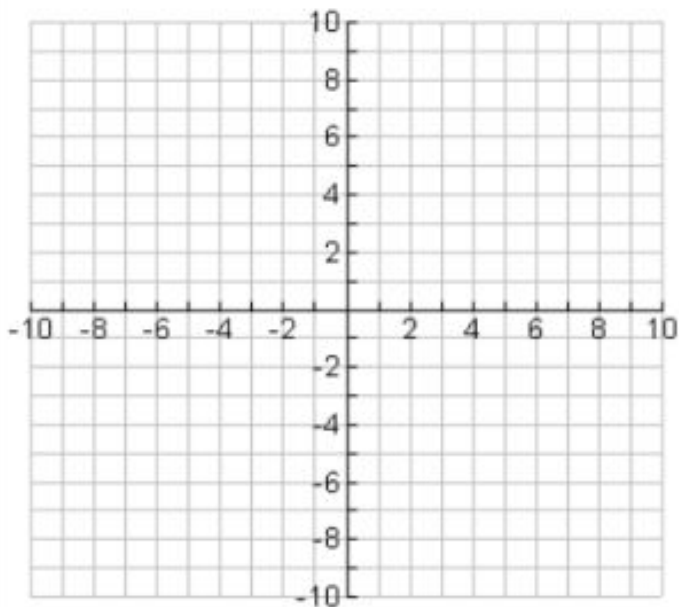
Definition (in own words)

Rules/Method:

Graphing by Hand  
Using the Slope and  
Y- Intercept

Examples

Non-examples



**Homework: Pg. 143 #1, 3**