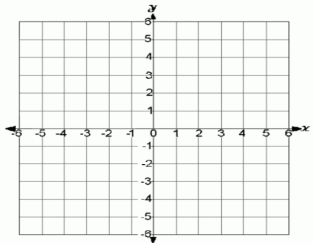
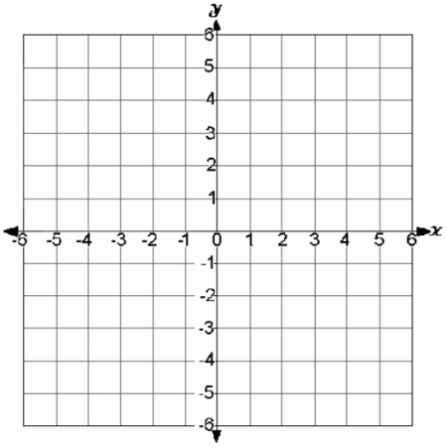
Graphing ordered pairs: To graph a point, move along the x-axis first, and then along the y-axis .



Ex. Graph Move to the left 3, then down 1.

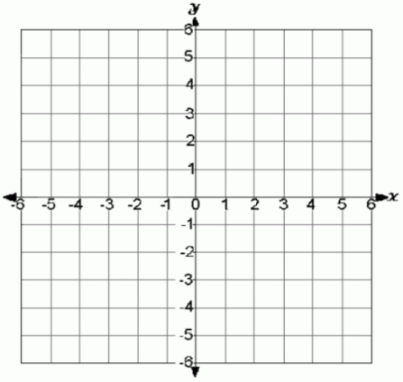
You try: Graph the following on the axis provided:

Graphing a line:

1. Slope-intercept form *m* stands for the slope, and *b* is the y-intercept

First mark the y-intercept on the y-axis. Then move from that point with the slope

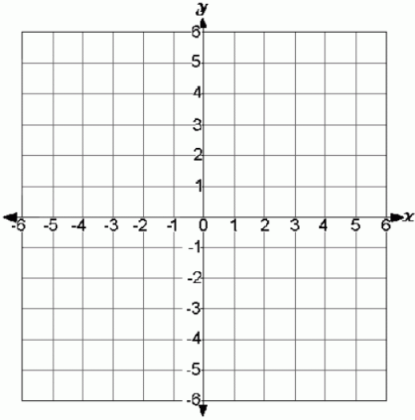
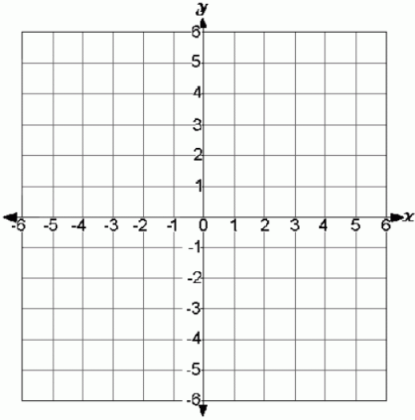
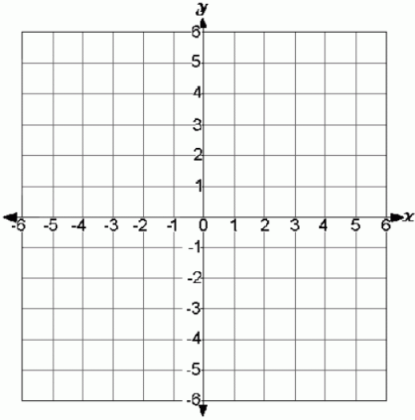
Move up or down first (down if the slope is negative), and then move to the right



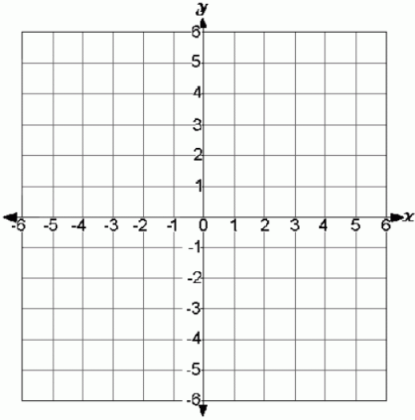
Ex. Start at 1 on the y-axis, then down 2, to the right 3

Connect the 2 points with a line.

You try:

 What about ?

Standard form Ex:



Option 1: Change into slope-intercept for to graph

Option 2: Find the x and y intercepts and graph those points.

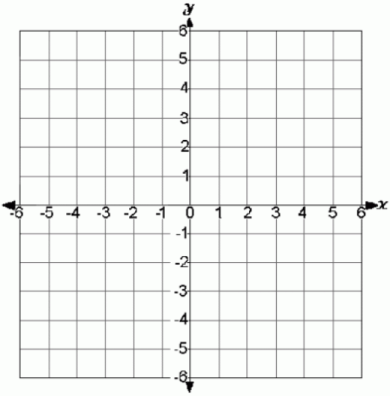
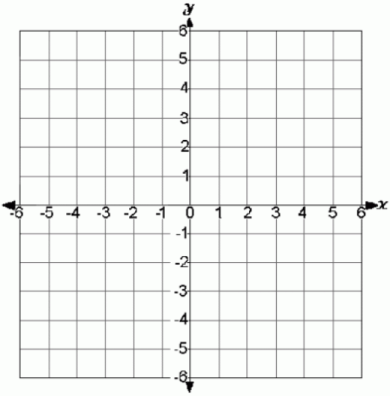
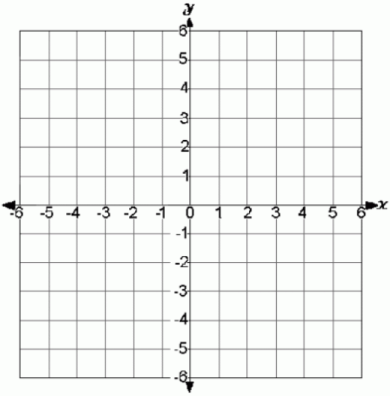
x-intercept (

Graph

y-intercept (

Graph

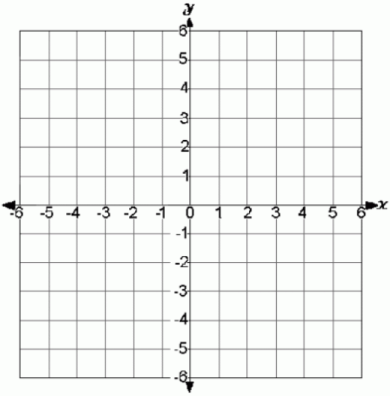
You try, using either method:



Find the slope (m):

From a graph, choose 2 points, then From 2 ordered pairs, use

figure out the



, but since

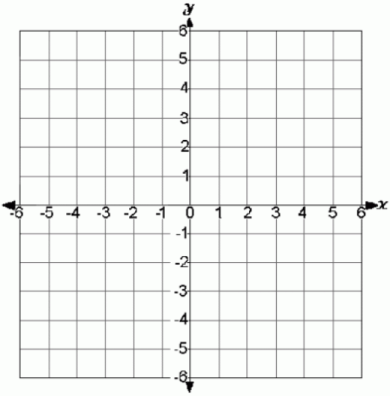
the line heads

downhill, it’s a

negative slope,

So

You try: Find the slope (m).



Write an equation in slope-intercept form: Once you have *m* and *b*, write the equation

Given the slope and an ordered pair Given 2 ordered pairs

Ex. Ex.

Use the ordered pair to find *b* Find *m* first.

Equation: Choose one ordered pair to find *b*

Equation:

You try: