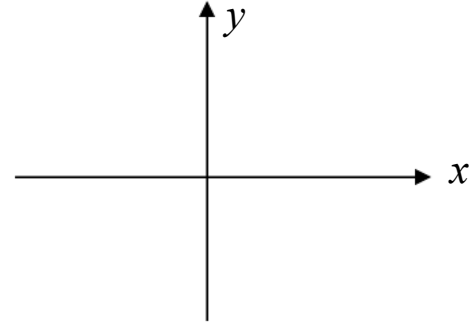


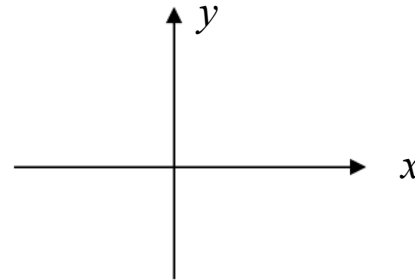
Math 1324
Section 1.2
Graphs of Linear Equations

The videos corresponding to this worksheet can be found at
<https://online.math.uh.edu/Math1324/>.
UH students can also view the videos within the Math 1324 textbook.

Example 1: Sketch the graph of $-\frac{1}{3}x + y = 1$ by using the slope and y -intercept.



Example 2: Sketch the graph of $-2x - 5y = 10$ by using the slope and y -intercept.

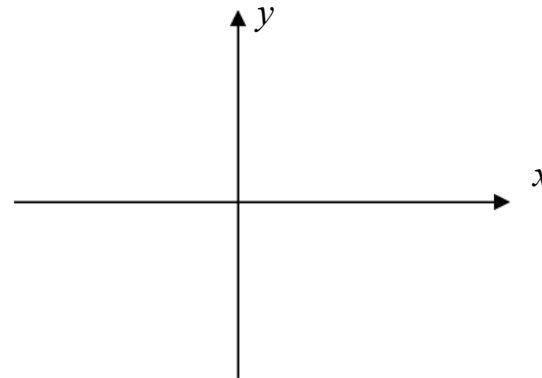


Intercepts of Graphs

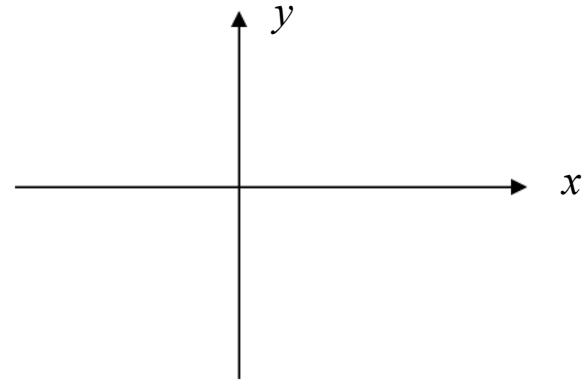
The ***y-intercept*** is the point where the graph crosses the *y-axis*. To find the *y*-intercept of a graph, substitute $x = 0$ into the equation and solve for *y*.

The ***x-intercept*** is the point where the graph crosses the *x-axis*. To find the *x*-intercept of a graph, substitute $y = 0$ into the equation and solve for *x*.

Example 3: Sketch the graph of $3x + 8y = 24$ by first finding the *x*- and *y*-intercepts.



Example 4: Sketch the graph of $-7x + 9y = 18$ by first finding the x - and y -intercepts.



Example 5: Sketch the graph of $-2x = y$ by first finding the x - and y -intercepts.

