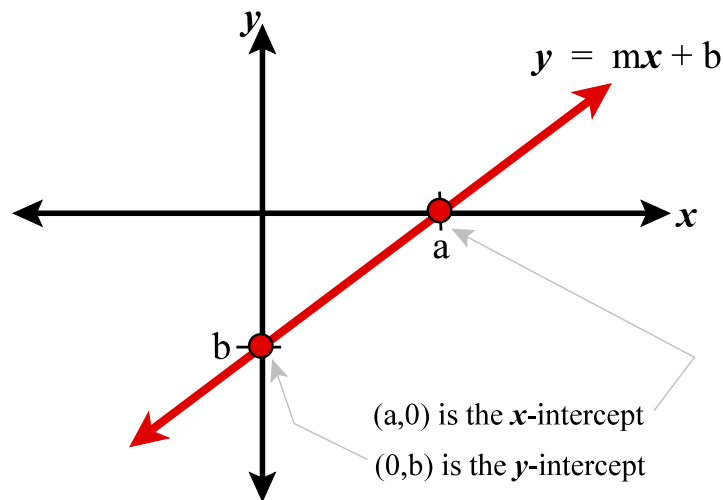


I. The x - and y -intercepts (p.209):

A typical line will intersect both the x - and y -axes once. The point at which the graph crosses the x -axis is called the x -intercept, while the point where the graph crosses the y -axis is known as the y -intercept...



...to find these two points...

Let $x = 0$ in the equation, solve for $y = b$, then let $y = 0$ in the equation, solve for $x = a$.

x	y
0	b
a	0

II. Examples (pp.214-216): #2,10,20,36,38,40,44

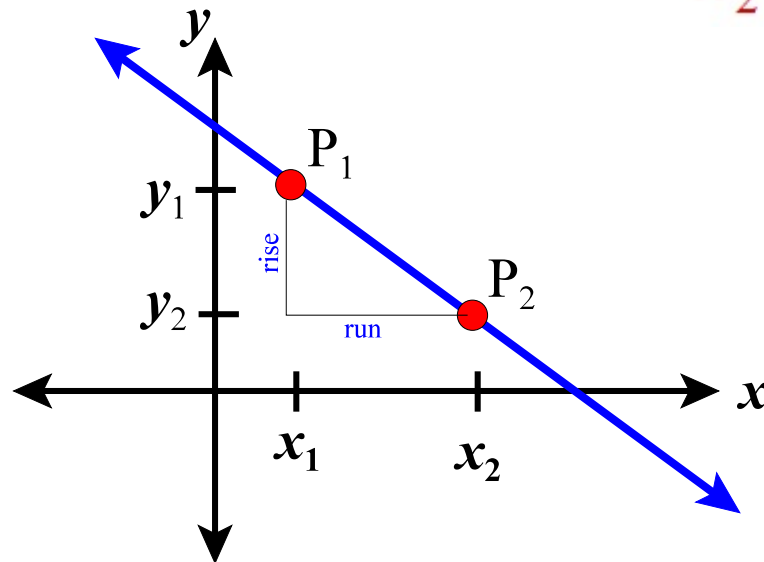
HW: pp.214-217 / #3-39(every other odd),43-57(odd)

I. Slope of a Line (p.220):

How steep a line is tilted or inclined is indicated by a quantity known as the **slope** of the line. It is frequently designated by the letter “**m**” and is defined as follows...

For any two points on a line, $P_1(x_1, y_1)$ & $P_2(x_2, y_2)$, its

slope is given by the formula, $m = \frac{y_2 - y_1}{x_2 - x_1}$ ↗ “rise” (vertical change)
over the
↘ “run” (horizontal change)



II. Examples (p.227): #2,8,14,34

HW: p.227 / #1-33(every other odd)

Read pp.219-226 (section 3.4)