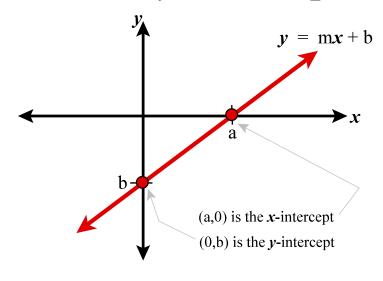
I. Function Arithmetic (p.128): $[f \pm g](\mathbf{x}) = f(\mathbf{x}) \pm g(\mathbf{x})$ $[f \cdot g](\mathbf{x}) = f(\mathbf{x}) \times g(\mathbf{x})$ $[f \div g](\mathbf{x}) = f(\mathbf{x}) \div g(\mathbf{x})$

II. Domain ~ permitted set of x-values set of Real Numbers or subset (avoid \div 0)

III. Examples (pp.132-133): Exercises #8,10,16,22,40

HW: pp.132-133 / Exercises #3-51(every other odd)

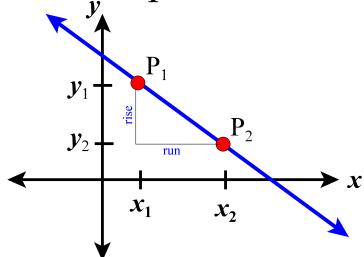
I. *x*- and *y*-intercepts of a line...



...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	У
0	b
а	0

II. Slope of a line (p.138): quantitative measure of how steep a line is tilted, usually denoted "m"



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

III. Equation Forms of a Line:

- 1. y = mx + bslope-intercept form2. Ax + By = Cstandard form
- IV. Examples (p.151): Exercise #4

HW: p.151 / Exercises #7,11,15 Read pp.136-150 (section 2.4)