## Overview of Linear Functions

A Linear Function is an Algebraic equation of two variables both variables are the First Degree ( Highest Exponent One). One variable is called independent variable while the other is called the dependent variable. The independent is the Horizontal variable while the dependent variable is the Vertical variable.
The sketches below represent possible categories to these Linear Functions:
(+) Slope, (-) Slope, Orgin, Vertical, Horizontal
Linear Functions (equations) normally appear in two distinct arrangements:

Standard Form Ax $+\mathbf{B y}=\mathbf{C}$
$\mathrm{A}, \mathrm{B}, \mathrm{C}$ are real numbers.

Slope-Intercept Form y=mx +b
$\mathbf{m}=$ slope and $b=y$ intercept


Special Case: Slope is Undefined! Why?
Special Case: Slope is Zero! Why?
Solving a Standard Form for $Y$ changes it to Slope Intercept Form.

$$
-2 x+3 y=6 \quad \rightarrow \quad 3 y=+2 x+6
$$

Malone College
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