**EQUATION OF A LINE.**

A line is a straight one-dimensional figure that has no curvature and extends infinitely in both directions. A line is defined by two points.

You can determine a line if you have

* 2 points
* 1 point and a slope

Methods to determine a line.

1. Point-slope form

y = m(x – x1) + y1

1. Point-intercept form

y = mx + b

1. 2-point form

y = (y2 - y1 ) / (x2 - x1) [x - x1] + y1

1. Standard Form

Ax + By = C

1. General Form

Ax + By + C = 0