Starting from Slope & Seeing Relationships

Point Slope Form of a Line

Derived from the slope

$$\frac{y-y_1}{x-x_1} = m$$ **Given**

$y - y_1 = m(x - x_1)$ **Mult. Prop of =, Denominator**

Point Slope Form of a Line

$y - y_1 = m(x - x_1)$

m is the slope

(x_1, y_1) is the point