

EQUATIONS OF LINES IN:

POINT -SLOPE FORM $(y - y_1) = m (x - x_1)$	ALL YOU NEED IS... <ul style="list-style-type: none"> • The coordinates of one point (x,y) • The slope, m, of the line
SLOPE- INTERCEPT FORM $y = mx + b$	ALL YOU NEED IS... <ul style="list-style-type: none"> • The slope, m, of the line • The y-intercept, b, of the line
STANDARD FORM * $AX + BY = C$	$\text{Slope} = \frac{-A}{B}$, $y\text{-int} = \frac{C}{B}$
GENERAL FORM * $AX + BY + C = 0$	$\text{Slope} = \frac{-A}{B}$, $y\text{-int} = \frac{-C}{B}$

* THE COEFFICIENT, A, IS ALWAYS EXPRESSED AS A POSITIVE NUMBER

EQUATION FOR THE SLOPE OF A LINE IS:

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

You need the coordinates of TWO points on the line to determine its slope.