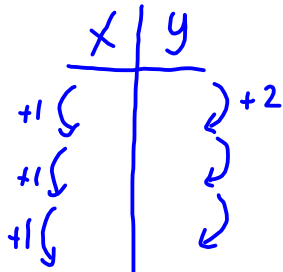


Graphics
Calculator
Exercise

$$y = mx + b$$

↑ ↑
Slope y-intercept

Example $y = 2x + 3$
 $m = 2$
 $b = 3$



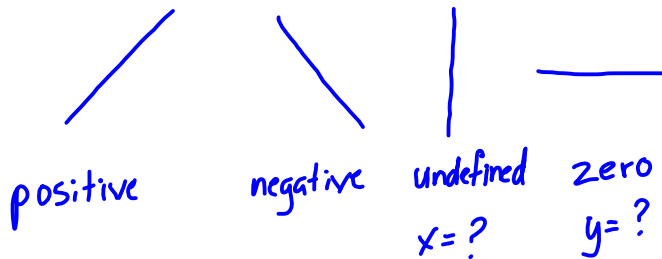
$$m = \frac{\text{rise}}{\text{run}}$$

$$= \frac{2}{1}$$

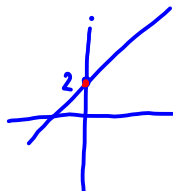
Example $y = \frac{2}{5}x + 1$

$$m = \frac{2}{5} \quad b = 1$$

Slope



y-intercept



$$y\text{-int} = 2$$

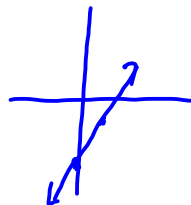
$$y = mx + b$$

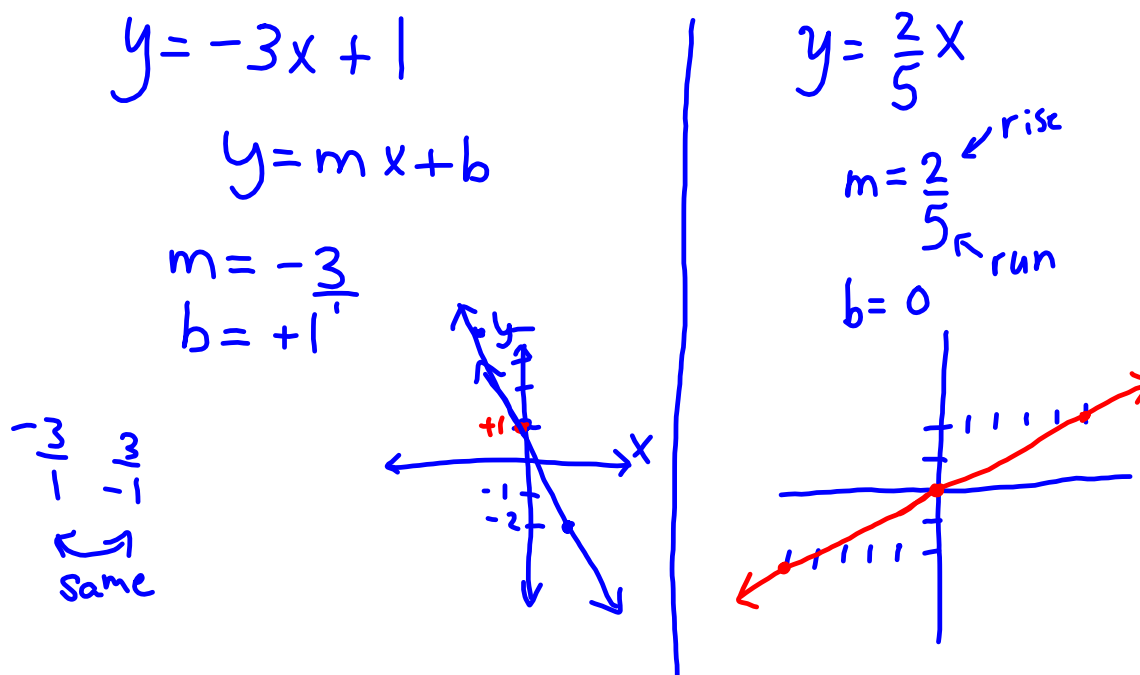
$$y = 2x - 3$$

$$\frac{2}{1} = \frac{\text{rise}}{\text{run}}$$

$$m = 2$$

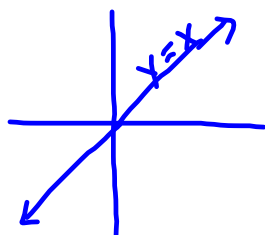
$$b = -3 \text{ (y-int)}$$





Worksheet...Linear Equations

1. $y = x$ 45° ascending $m = 1$ $b = 0$



2. $y = -x$ descending $m = -1$ $b = 0$ 45°

3. $y = x$ $m = 1$ 45° } $b = 0$ ascending
 $y = 4x$ $m = 4$ >45° }