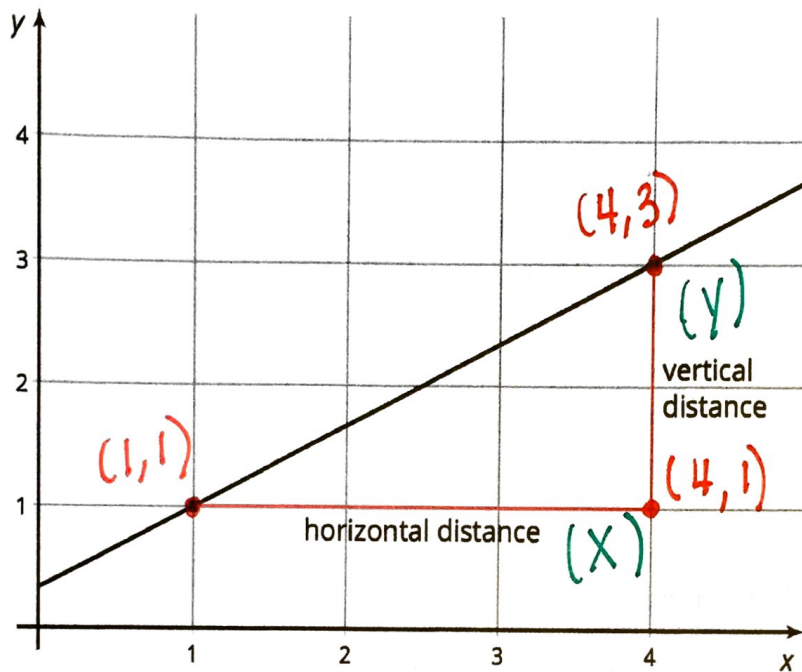


# Slope

Slope is the steepness of a line and is known as the rate of change. It is calculated by vertical length  $\div$  horizontal length



$$\frac{\text{vertical distance}}{\text{horizontal distance}}$$

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

$$\frac{3 - 1}{4 - 1} = \frac{2}{3}$$

$$m = \frac{2}{3}$$

Find the slope of the following points:

①  $(-4, 7)$   $(-6, -4)$       ②  $(6, -12)$   $(15, -3)$

③  $(9, 3)$   $(19, -17)$       ④  $(19, -2)$   $(-11, 10)$

⑤  $(-4, 7)$   $(-6, 12)$       ⑥  $(1, -19)$   $(-2, -7)$