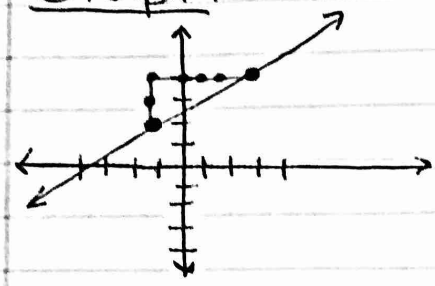
How can we see slope in different representations?

Graph



$$\text{Slope} = \frac{\Delta y}{\Delta x} = \frac{2}{4} = \frac{1}{2}$$

Table

x	y
3	5
6	6
9	7
12	8

+3 +1

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \frac{1}{3}$$

Ordered Pairs

(5,−2) (3,4) $\text{Slope} = \frac{\Delta y}{\Delta x} = \frac{4-(-2)}{3-5} = \frac{6}{-2} = -3$

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

Ex: (1,4) (−1, r) Slope of 2

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

$$2 = \frac{r-4}{-2}$$

$$(-2)2 = \frac{r-4}{\cancel{-2}}\cancel{(-2)}$$

$$-4 = r-4$$
$$+4 \quad +4$$

$\rightarrow 0 = r$