



Find the Slopes

Name _____

Score _____

SL:10

Example : Find the slope of a line passing through points (2, 3) and (-1, -4).

$$\text{rise} = \Delta y = y_2 - y_1 = -4 - 3 = -7$$

$$\text{run} = \Delta x = x_2 - x_1 = -1 - 2 = -3$$

$$\text{Slope} = m = \frac{\text{rise}}{\text{run}} = \frac{\Delta y}{\Delta x} = \frac{-7}{-3} = \frac{7}{3}$$

Find the slope of each line that passes through the given two points by calculating rise and run. Complete the table.

Q.No	Points	Rise (Δy)	Run (Δx)	Slope(m)
1)	(-5, 3) and (7, -10)			
2)	(0, 2) and (8, 6)			
3)	(4, -7) and (-1, -4)			
4)	(-5, 9) and (3, 9)			
5)	(-3, -2) and (7, -8)			
6)	(-1, 0) and (-5, -5)			



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Answer key

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Q.No	Points	Rise (Δy)	Run (Δx)	Slope(m)
1)	(-5, 3) and (7, -10)	-13	12	$-\frac{13}{12}$
2)	(0, 2) and (8, 6)	4	8	$\frac{4}{8}$ or $\frac{1}{2}$
3)	(4, -7) and (-1, -4)	3	-5	$-\frac{3}{5}$
4)	(-5, 9) and (3, 9)	0	8	0
5)	(-3, -2) and (7, -8)	-6	10	$-\frac{6}{10}$ or $-\frac{3}{5}$
6)	(-1, 0) and (-5, -5)	-5	-4	$\frac{5}{4}$