



Find the Slopes

Name _____

Score _____

SL:12

Example : Find the slope of a line passing through points $(-4, 8)$ and $(3, -1)$.

$$\text{rise} = \Delta y = y_2 - y_1 = -1 - 8 = -9$$

$$\text{run} = \Delta x = x_2 - x_1 = 3 + 4 = 7$$

$$\text{Slope} = m = \frac{\text{rise}}{\text{run}} = \frac{\Delta y}{\Delta x} = \frac{-9}{7}$$

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)	$(1, 8)$ and $(7, -4)$			
2)	$(-2, -3)$ and $(-9, -3)$			
3)	$(0, -6)$ and $(-5, 10)$			
4)	$(2, 3)$ and $(8, -1)$			
5)	$(-7, -7)$ and $(-3, -3)$			
6)	$(6, 9)$ and $(0, 0)$			



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Answer key

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Q.No	Points	Rise (Δy)	Run (Δx)	Slope(m)
1)	$(1, 8)$ and $(7, -4)$	-12	6	-2
2)	$(-2, -3)$ and $(-9, -3)$	0	-7	0
3)	$(0, -6)$ and $(-5, 10)$	16	-5	$-\frac{16}{5}$
4)	$(2, 3)$ and $(8, -1)$	-4	6	$-\frac{4}{6}$ or $-\frac{2}{3}$
5)	$(-7, -7)$ and $(-3, -3)$	4	4	1
6)	$(6, 9)$ and $(0, 0)$	-9	-6	$-\frac{9}{-6}$ or $\frac{3}{2}$