

Name: _____

Finding the Slope

Find the slope for each table of values.

(a)

x	y
-6	8
-2	4
2	0
6	-4
10	-8

$m = \underline{\hspace{2cm}}$

(b)

x	y
3	-1
4	-3
5	-5
6	-7
7	-9

$m = \underline{\hspace{2cm}}$

(c)

x	y
-1	-10
0	-5
1	0
2	5
3	10

$m = \underline{\hspace{2cm}}$

(d)

x	y
-4	2
-2	1
0	0
2	-1
4	-2

$m = \underline{\hspace{2cm}}$

(e)

x	y
-9	10
-3	8
3	6
9	4
15	2

$m = \underline{\hspace{2cm}}$

(f)

x	y
3	-1
6	1
9	3
12	5
15	7

$m = \underline{\hspace{2cm}}$

ANSWERS

Finding the Slope

Note: Answers should be consistent but work may vary.

(a)

x	y
-6	8
-2	4
2	0
6	-4
10	-8

$(-6, 8)$ and $(-2, 4)$

$$\begin{aligned} \text{rise} &= 4 - 8 \\ &= -4 \end{aligned}$$

$$\begin{aligned} \text{run} &= -2 - (-6) \\ &= 4 \end{aligned}$$

$$m = \underline{\underline{\frac{-4}{4} \text{ or } -\frac{4}{4} \text{ or } -1}}$$

(b)

x	y
3	-1
4	-3
5	-5
6	-7
7	-9

$(3, -1)$ and $(4, -3)$

$$\begin{aligned} \text{rise} &= -3 - (-1) \\ &= -2 \end{aligned}$$

$$\begin{aligned} \text{run} &= 4 - 3 \\ &= 1 \end{aligned}$$

$$m = \underline{\underline{\frac{-2}{1} \text{ or } -\frac{2}{1} \text{ or } -2}}$$

(c)

x	y
-1	-10
0	-5
1	0
2	5
3	10

$(-1, -10)$ and $(0, -5)$

$$\begin{aligned} \text{rise} &= -5 - (-10) \\ &= 5 \end{aligned}$$

$$\begin{aligned} \text{run} &= 0 - (-1) \\ &= 1 \end{aligned}$$

$$m = \underline{\underline{\frac{5}{1} \text{ or } 5}}$$

(d)

x	y
-4	2
-2	1
0	0
2	-1
4	-2

$(-4, 2)$ and $(-2, 1)$

$$\begin{aligned} \text{rise} &= 1 - 2 \\ &= -1 \end{aligned}$$

$$\begin{aligned} \text{run} &= -2 - (-4) \\ &= 2 \end{aligned}$$

$$m = \underline{\underline{\frac{-1}{2} \text{ or } -\frac{1}{2}}}$$

(e)

x	y
-9	10
-3	8
3	6
9	4
15	2

$(-9, 10)$ and $(-3, 8)$

$$\begin{aligned} \text{rise} &= 8 - 10 \\ &= -2 \end{aligned}$$

$$\begin{aligned} \text{run} &= -3 - (-9) \\ &= 6 \end{aligned}$$

$$m = \underline{\underline{\frac{-2}{6} \text{ or } -\frac{2}{6} \text{ or } -\frac{1}{3}}}$$

(f)

x	y
3	-1
6	1
9	3
12	5
15	7

$(3, -1)$ and $(6, 1)$

$$\begin{aligned} \text{rise} &= 1 - (-1) \\ &= 2 \end{aligned}$$

$$\begin{aligned} \text{run} &= 6 - 3 \\ &= 3 \end{aligned}$$

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