# DETERMINING SLOPE USING TWO POINTS

Use the slope formula $m = \frac{rise}{run} = \frac{y_2 - y_1}{x_2 - x_1}$ to find the slope of the line through each of the points.

**1.** (2, 0) and (1, –4)

**2.** (–2, 3) and (6, 9)

**3.** (0, –5), (3, 0)

**4.** (13, –18), (–8, –17)

**5.** (–18, 5) and (–5, 17)
Complete Using Equation Editor and Submit to Assignment Folder in Google Classroom.

**6.** (6, –6) and (–7, 20)
Complete Using Equation Editor and Submit to Assignment Folder in Google Classroom.

**7.** (–2, 3), (2,3)

What do you think this line looks like?

Sketch a rough graph to see if you are right.

**8.** (3, 3), (3, –1)

What do you think this line looks like?

Sketch a rough graph to see if you are right.

**Answers:** 1) 4 2) $\frac{3}{4}$ 3) $\frac{5}{3}$ 4) $-\frac{1}{21}$ 5) $\frac{12}{13}$ 6) -2 7) 0, horizontal line 8) undefined, vertical line

Use the slope formula $\boxed{m = \frac{rise}{run} = \frac{y_2 - y_1}{x_2 - x_1}}$ to find the slope of the line represented by each table

1)

| x | y |
|---|---|
| 1 | 0 |
| 2 | 2 |
| 3 | 4 |

2)

| x | Y |
|---|---|
| -2 | -5 |
| 0 | -2 |
| 2 | 1 |

3)

| x | y |
|---|---|
| 2 | -5 |
| 4 | -3 |
| 6 | -1 |

4)

| x | y |
|---|---|
| 1 | 4 |
| 3 | 1 |
| 5 | -2 |

5)

| x | y |
|---|---|
| -3 | 6 |
| -2 | -1 |
| -1 | -8 |

6)

| x | Y |
|---|---|
| 2 | 4 |
| -4 | -8 |
| 5 | 10 |

7)

| x | y |
|---|---|
| 0 | 5 |
| 1 | 4 |
| 2 | 3 |

8)

| x | y |
|---|---|
| -2 | 6 |
| 0 | 0 |
| 2 | -6 |