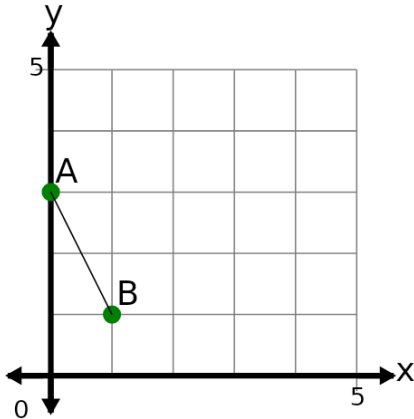


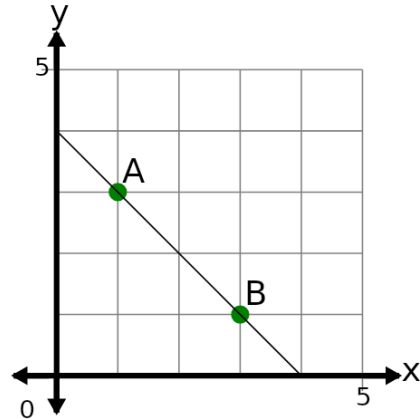
## Linear Functions

- 1 Find the slope of the line between Point A and Point B



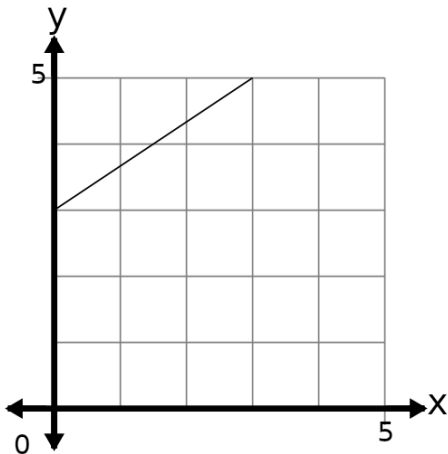
|   |      |   |      |   |      |
|---|------|---|------|---|------|
| A | -2   | B | 2    | C | -0.4 |
| D | -1.5 | E | -0.5 | F | -6   |

- 2 Find the slope of the line between Point A and Point B



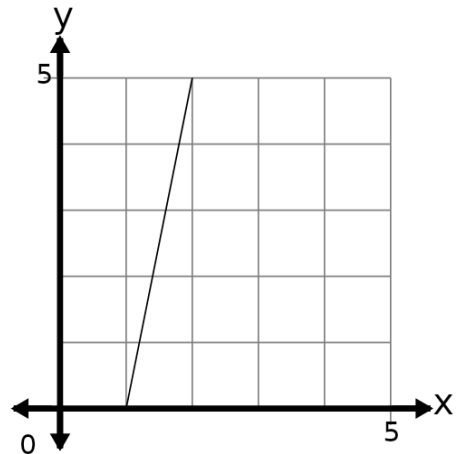
|   |      |   |      |   |      |
|---|------|---|------|---|------|
| A | -2.8 | B | -2   | C | -1   |
| D | 2.25 | E | -1.4 | F | -0.5 |

- 3 Find the slope of the line

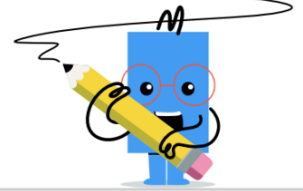


|   |     |   |      |   |      |
|---|-----|---|------|---|------|
| A | 1.5 | B | 0.67 | C | 1.07 |
| D | 1.6 | E | 0.8  | F | 0.93 |

- 4 Find the slope of the line

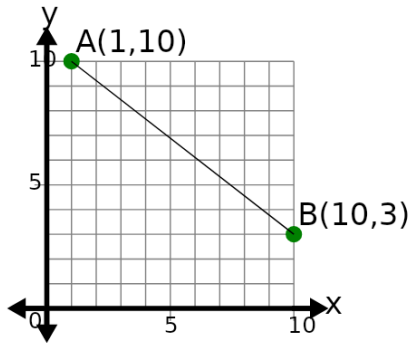


|   |       |   |     |   |      |
|---|-------|---|-----|---|------|
| A | -1.25 | B | 5   | C | -0.5 |
| D | 0     | E | 0.2 | F | 0.5  |



## Linear Functions

5 Find the slope of segment AB



A  $-\frac{7}{12}$

B  $-\frac{9}{7}$

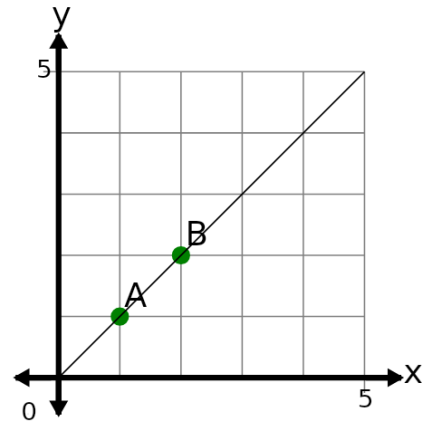
C  $-\frac{4}{9}$

D  $-1$

E  $-\frac{7}{13}$

F  $-\frac{7}{9}$

6 Find the slope of the line between Point A and Point B



A  $-0.8$

B  $-1$

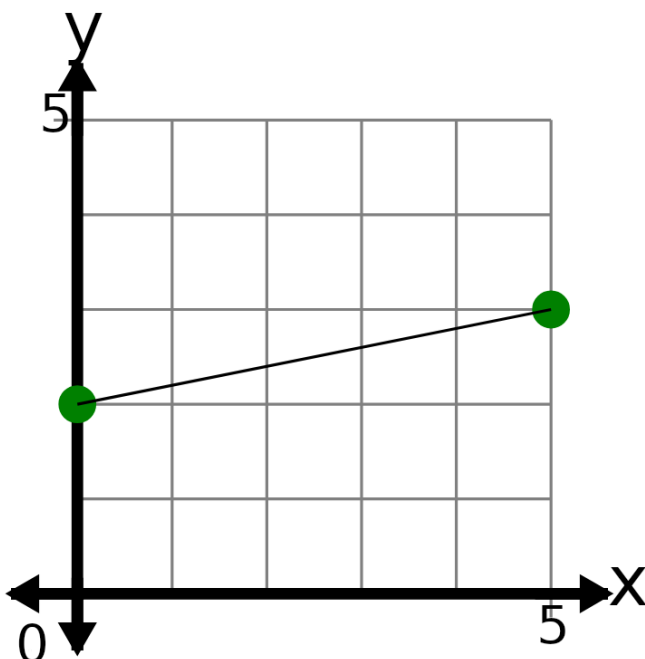
C  $1$

D  $1.2$

E  $1.6$

F  $2.5$

7 What slope does the line on this graph have?

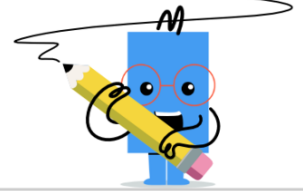


A  $m = -\frac{5}{2}$

B  $m = \frac{1}{5}$

C  $m = 5$

D  $m = -\frac{1}{5}$



## Linear Functions

- 8 What slope would this line of X, Y values have?

| X | Y  |
|---|----|
| 0 | 1  |
| 1 | 0  |
| 2 | -1 |
| 3 | -2 |
| 4 | -3 |

A  $m=1$

B  $m=-1$

C  $m=-0.5$

- 10 What equation would create this chart of X, Y values?

| X | Y  |
|---|----|
| 0 | 3  |
| 1 | 2  |
| 2 | 1  |
| 3 | 0  |
| 4 | -1 |

A  $y = 1x + 3$

B  $y = -1x + 3$

C  $y = -\frac{1}{2}x + 3$

- 12 Find the slope of the line between the two (x, y) points

**(3, 6) and (8,8)**

A 0.4

B -2

C 0.32

D -2.25

E 0

F 2.5

- 9 What slope would this line of X, Y values have?

| X | Y   |
|---|-----|
| 0 | 5   |
| 1 | 0   |
| 2 | -5  |
| 3 | -10 |
| 4 | -15 |

A  $m = -\frac{5}{2}$

B  $m = -\frac{1}{5}$

C  $m = -5$

D  $m = 5$

- 11 Find the slope of segment AB

Point A : (3,5)

Point B : (4,2)

A -5

B -3

C 1

D  $-\frac{1}{3}$

E  $\frac{3}{2}$

F -1

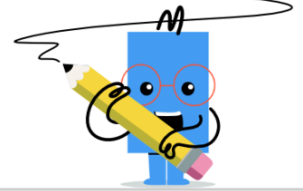
- 13 Is the slope of segment AB equal to -9

Point A : (1,10)

Point B : (10,9)

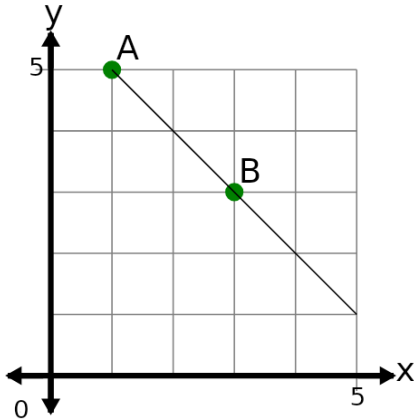
A Yes

B No



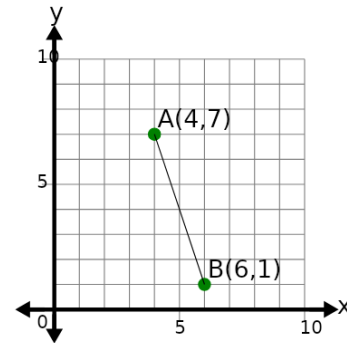
## Linear Functions

**14** Find the slope of the line between Point A and Point B



|            |           |          |
|------------|-----------|----------|
| A<br>0.25  | B<br>1.75 | C<br>0.4 |
| D<br>-0.25 | E<br>-0.4 | F<br>-1  |

**15** Find the slope of segment AB



|                     |                     |
|---------------------|---------------------|
| A<br>-3             | B<br>$-\frac{6}{5}$ |
| C<br>$-\frac{1}{3}$ | D<br>-4             |
| E<br>3              | F<br>$-\frac{9}{2}$ |

**16** Find the slope of the line between 4 and 7 given the two values for  $y = f(x)$

$$f(4) = 2 \quad f(7) = 9$$

|            |          |           |
|------------|----------|-----------|
| A<br>-2.33 | B<br>5.6 | C<br>0.43 |
| D<br>4.2   | E<br>0.5 | F<br>2.33 |

**17** Find the y intercept of this function by setting x to zero and solving

$$25x + 5y = 10$$

|         |         |         |
|---------|---------|---------|
| A<br>2  | B<br>5  | C<br>7  |
| D<br>-6 | E<br>-3 | F<br>-7 |

**18** Find the y intercept of this function by setting x to zero and solving

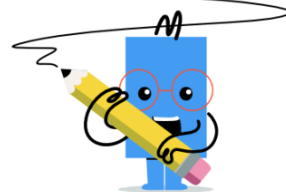
$$-12x + 6y = 12.1$$

|          |          |           |
|----------|----------|-----------|
| A<br>5.1 | B<br>2   | C<br>-0.3 |
| D<br>1.3 | E<br>3.5 | F<br>0.5  |

**19** Find the y-intercept (b) of the line through the two (x, y) points with the given slope

$$(9, 1) \text{ and } (10, 2), \text{ slope} = 1$$

|          |          |          |
|----------|----------|----------|
| A<br>12  | B<br>8   | C<br>-14 |
| D<br>-17 | E<br>-13 | F<br>-8  |



## Linear Functions

**20** Find the equation of the line through the two (x, y) points in slope/y-intercept form ( $y = mx + b$ )

**(0, 1) and (8, 2)**

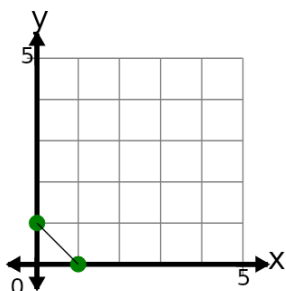
A  $y = \frac{1}{8}x + 1$

B  $y = \frac{1}{8}x + -\frac{5}{8}$

C  $y = \frac{1}{3}x + 1$

D  $y = \frac{1}{8}x + -\frac{17}{8}$

**21** What slope does the line on this graph have?

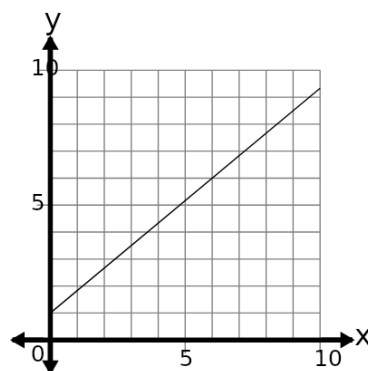


A  $m = 1$

B  $m = -1$

C  $m = -0.5$

**22** Select the equation that would result in the line on the graph as shown



A  $y = -0.17x + 1$

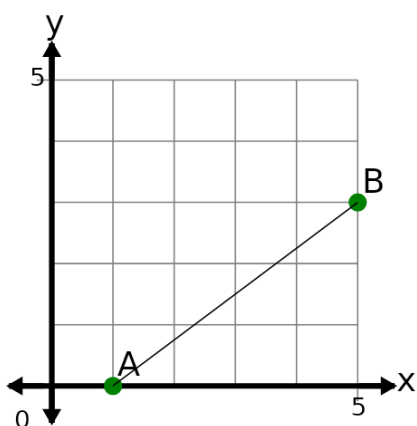
B  $y = 0.83x + 1$

C  $y = 2.83x - 0.5$

D  $y = 0.83x + 2.5$

E  $y = -1.17x + 1$

**23** Find the slope of the line between Point A and Point B



A  $-1.25$

B  $1.33$

C  $0$

D  $0.5$

E  $1.95$

F  $0.75$