**Determine rate of change from an equation****1**

Find the y intercept of this function

$$y = -3x + 5$$

A

9

B

13

C

5

D

-1

E

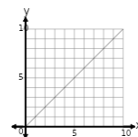
7

F

1

2

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



A

$$y = 1x$$

B

$$y = 5x - 3$$

C

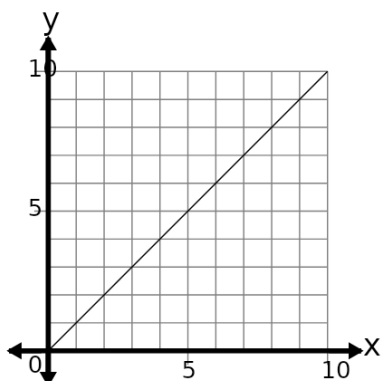
$$y = -1$$

D

$$y = -1x$$

3

Select the equation that would result in the line shown with a slope of 1



A

$$y = 4x$$

B

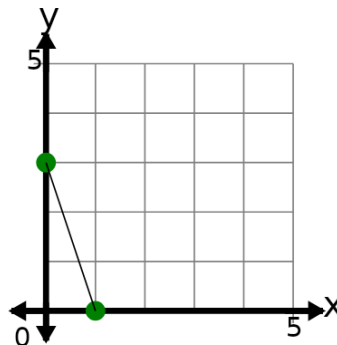
$$y = 1x$$

C

$$y = -1$$

4

What slope does the line on this graph have?



A

$$m = -3$$

B

$$m = 3$$

C

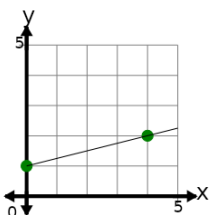
$$m = -\frac{3}{2}$$

D

$$m = -\frac{1}{3}$$

5

What slope does the line on this graph have?



A

$$m=0.13$$

B

$$m=-0.25$$

C

$$m=0.25$$

D

$$m=4$$

6

Write the expression for the average rate of change of this function between the two points.

$$f(x) = 2x^3$$

$$f(2) = 16$$

$$f(1) = 2$$

A

$$\frac{2 - 16}{1 - 2}$$

B

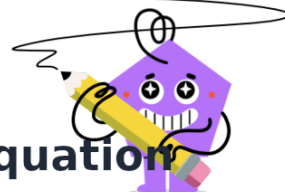
$$\frac{16 - 2}{1 - 2}$$

C

$$\frac{1 - 2}{2 - 16}$$

D

$$\frac{2 - 16}{2 - 1}$$

**Determine rate of change from an equation****7**

What line equation would have this slope?

$$m = -\frac{1}{2}$$

A

$$y = -\frac{1}{2}x + 3.5$$

B

$$y = \frac{1}{2}x + 3.5$$

C

$$y = \frac{2}{2}x + 3.5$$

D

$$y = -2x + 3.5$$

8 $m=1$

A

$$y = \frac{1}{2}x + 2$$

B

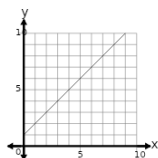
$$y = -1x + 2$$

C

$$y = 1x + 2$$

9

Select the equation that would result in the line shown with a y-intercept of 1 and a slope of 1



A

$$y = 3x + 4$$

B

$$y = 1x + 1$$

C

$$y = 4$$

D

$$y = -1x - 1$$

10

What slope would this line equation have?

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

A

 $m=0.33$

B

 $m=3$

C

 $m=0.17$

D

 $m=-0.33$ **11**

What slope would this line equation have?

$$y = 2x + 2$$

A

 $m=2$

B

 $m=-2$

C

 $m=0.5$

D

 $m=1$