

Recognize constant rate of change

1

(0, 3) and (2, 5)

A 2.2	B 2	C 2.6
D 2.8	E 1	F -2.25

2 $f(1) = 0$ $f(4) = 7$

A 2.25	B -2.33	C -1.25
D 6.53	E 0.43	F 2.33

3

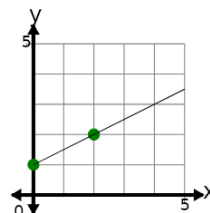
What slope would this line of X, Y values have?

X	Y
0	2
1	5
2	8
3	11
4	14

A $m = \frac{3}{2}$
B $m = \frac{1}{3}$
C $m = 3$
D $m = -3$

4

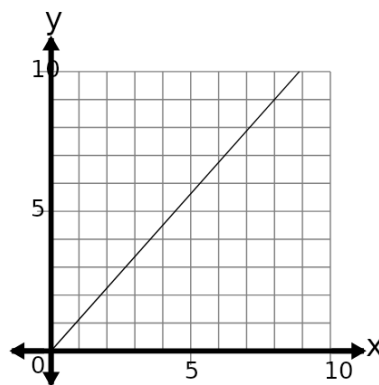
What slope does the line on this graph have?



A $m = -0.5$	B $m = 2$	C $m = 0.25$	D $m = 0.5$
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5

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



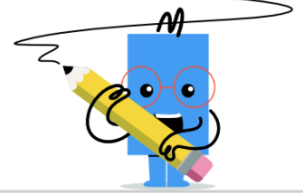
A $y = 2.12x + 1.5$
B $y = -1.1249993521201218$
C $y = 1.12x$

6

What line equation would create this set of X, Y values?

X	Y
0	1
1	2
2	3
3	4

A $y = 1x$	B $y = \frac{1}{2}x$
C $y = -1x$	



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7 $m=4$

A

X	Y
0	3
1	7
2	11
3	15
4	19

B

X	Y
0	3
1	3.25
2	3.5
3	3.75
4	4

8

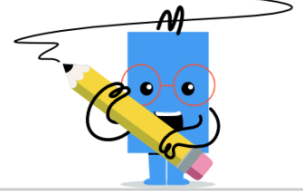
Which completed table shows a neither linear nor quadratic function?

A

x	y	1st Diff	2nd Diff
3	-4		
4	0	4	1
5	5	5	2
6	12	7	4
7	23	11	

B

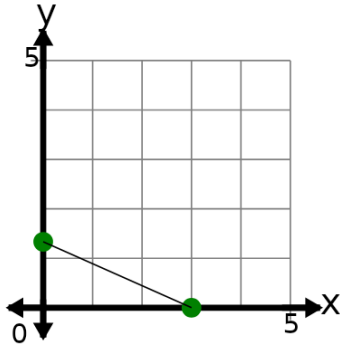
x	y	1st Diff	2nd Diff
-2	-9		
-1	-7	2	1
0	-4	3	1
1	0	4	1
2	5	5	



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9

What slope does the line on this graph have?



A

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

B

$$m = -3$$

C

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

D

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

10

What chart of X, Y values would have this slope?

$$m = -1$$

A

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

B

X	Y
0	1
1	2
2	3
3	4
4	5

11

$m=2$

A

X	Y
0	1
1	3
2	5
3	7
4	9

B

X	Y
0	1
1	-1
2	-3
3	-5
4	-7