



Distinguish linear and non-linear relationships

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

$$m = -3$$

A

X	Y
0	3
1	6
2	9
3	12
4	15

B

X	Y
0	3
1	0
2	-3
3	-6
4	-9

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

X	Y
0	1
1	1.25
2	1.5
3	1.75
4	2

A

$$m = -\frac{1}{4}$$

B

$$m = -\frac{4}{2}$$

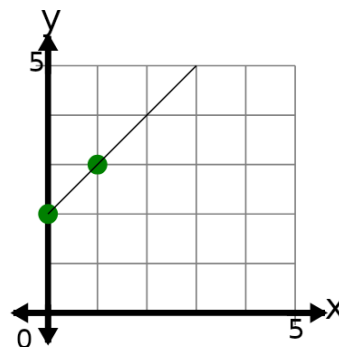
C

$$m = 4$$

D

$$m = \frac{1}{4}$$

- 3 What slope does the line on this graph have?



A

$$m = -1$$

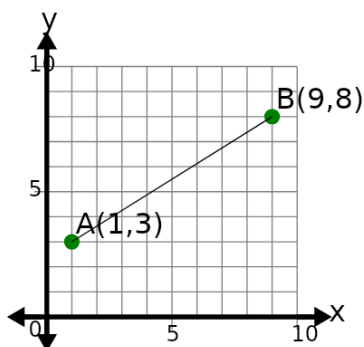
B

$$m = 1$$

C

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

- 4 How would you find the slope of segment AB?



A

$$\frac{9 - 1}{8 - 3}$$

B

$$\frac{8 - 3}{9 - 1}$$

- 5 Which type of graph would this formula create?

$$y = |x|$$

A Cubic

B Exponential

C Quadratic

D Absolute Value



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6 $m=0.25$

A

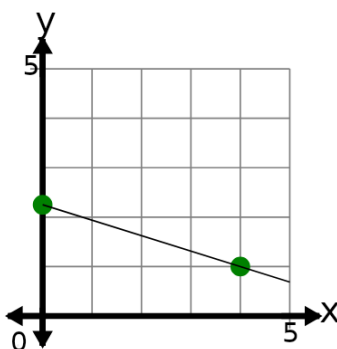
X	Y
0	3
1	3.25
2	3.5
3	3.75
4	4

B

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

7

What chart of X, Y values matches this graph?



A

X	Y
0	2.25
1	-1.75
2	-5.75
3	-9.75
4	-13.75

B

X	Y
0	2.25
1	2
2	1.75
3	1.5
4	1.25



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Exponential

A $y = a^x$

B $y = \log(x)$

C $y = |x|$

D $y = mx + b$

10

Which type of graph would this formula create?

$y = \sin(x)$

A Absolute Value

B Cubic

C Trigonometric

D Reciprocal

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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

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

C

$y = 1x + 3$

11 $m=0.33$

A

X	Y
0	1
1	4
2	7
3	10
4	13

B

X	Y
0	1
1	1.33
2	1.67
3	2
4	2.33