

Represent linear relations using tables

1

Does this rule create each output from its input?

Rule: multiply by 4 then subtract 1

Input	Output
1	2
2	6
7	26
8	30
9	34

A No

B Yes

2

What rule turns each input into its output?

Input	Output
1	7
2	12
3	17
6	32
9	47

A multiply by 5 then add 2

B multiply by 3 then subtract 9

C multiply by 2 then add 7

D multiply by 3 then add 3

3

What rule turns each input into its output?

Input	Output
4	10
5	13
6	16
7	19
8	?

A multiply by 3 then subtract 2

B multiply by 3 then add 11

C multiply by 6 then add 12

D multiply by 5 then add 9

4

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

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

A $m=0.5$ B $m=-2$ C $m=2$ D $m=1$ **5**

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

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

A $m = -4$ B $m = 4$ C $m = \frac{4}{2}$ D $m = \frac{1}{4}$ **6**

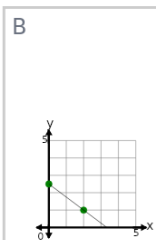
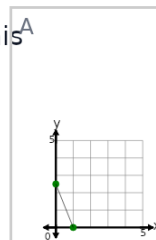
What line equation would create this set of X, Y values?

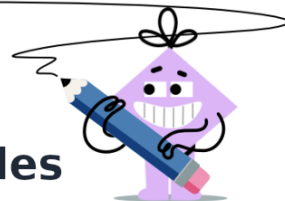
X	Y
0	0
1	0.5
2	1
3	1.5
4	2

A $y = \frac{2}{2}x$ B $y = \frac{1}{2}x$ C $y = -2x$ **7**

What graph shows this set of X, Y values?

X	Y
0	2.5
1	2
2	1.5
3	1
4	0.5





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What chart of X, Y values matches this equation?

$$y = -1x + 3$$

A

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

B

X	Y
0	3
1	5
2	7
3	9
4	11

9

What chart of X, Y values matches this line equation?

$$y = -5x + 5$$

A

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

B

X	Y
0	5
1	10
2	15
3	20
4	25

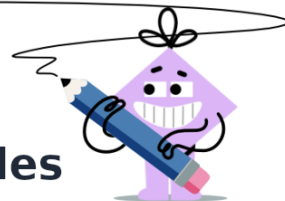
10 $m = -1$

A

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

B

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



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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

12

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

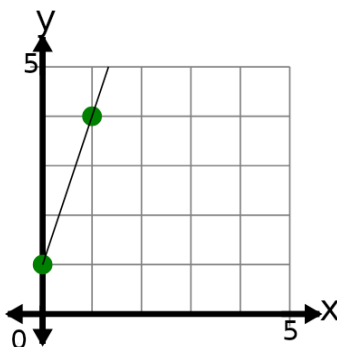
$$y = -\frac{1}{2}x + 3$$

C

$$y = 1x + 3$$

13

What chart of X, Y values matches this graph?



A

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

B

X	Y
0	1
1	2.5
2	4
3	5.5
4	7