



## YOU TRY IT! #4

For the data set below, determine if the relationship is a linear function. If so, determine a function relating the variables.

$x$	$y$
6	11
9	16
12	21
15	26
18	31



## PRACTICE/HOMEWORK

For questions 1 - 4 determine the equation of the linear function with the given characteristics.

1. slope = 0.4,  $y$ -intercept =  $(0, -3)$
2. slope =  $\frac{2}{3}$ ,  $y$ -intercept =  $(0, 3\frac{1}{3})$
3. slope =  $-\frac{2}{5}$ , contains the point  $(10, 3)$
4. slope =  $\frac{1}{4}$ , contains the point  $(-8, 1)$

For questions 5 - 16, determine whether or not the relationship shows a linear function. If the data set represents a linear function, write the equation for the function.

5.

$x$	$y$
1	1
2	4
3	9
4	16
5	25

6.

$x$	$y$
1	5.5
2	7.5
3	9.5
4	11.5
5	13.5

7.

$x$	$y$
1	8
2	11
3	14
4	17
5	20

8.

$x$	$y$
1	24
2	20
3	16
4	12
5	8

9.

$x$	$y$
0	1.7
1	1.1
2	0.5
3	-0.1
4	-0.7

10.

$x$	$y$
0	2
2	4
4	8
6	16
8	32

11.

$x$	$y$
2	4
4	5
6	7
8	10
10	14

12.

$x$	$y$
2	8
4	9
6	10
8	11
10	12

13.

$x$	$y$
3	2
5	10
7	18
9	26
11	34

14.

$x$	$y$
1	10
2	8
3	6
4	4
5	2

15.

$x$	$y$
1	16
2	15
3	13
4	10
5	6

16.

$x$	$y$
1	120
2	60
3	40
4	30
5	24

For questions 17 - 20, use the information in the problem to create a table of data. Then, use the table to determine if the situation is linear or not. If the situation is linear, then use the table to determine a linear function.



## SCIENCE

17. The elevation of Lake Sam Rayburn is 164 feet above mean sea level. During the summer, if it does not rain, the elevation of the lake decreases by 0.5 feet each week.

$x$	$y$