

For 7-12, decide whether the table represents a linear or exponential function. Circle either linear or exponential. Then, write the function formula.

7.

x	0	1	2	3	4	5	6	7
y	12	8	4	0	-4	-8	-12	-16

Linear or exponential?

 $f(x) =$

8.

x	0	1	2	3	4	5	6	7
y	10	5	2.5	1.25	0.625	0.3125	0.15625	0.078125

Linear or exponential?

 $f(x) =$

9.

x	0	1	2	3	4	5	6	7
y	2	5	8	11	14	17	20	23

Linear or exponential?

 $f(x) =$

10.

x	0	1	2	3	4	5	6	7
y	0.4	0.6	0.9	1.35	2.025	3.0375	4.55625	6.834375

Linear or exponential?

 $f(x) =$

11.

x	0	1	2	3	4	5	6	7
y	3	6	12	24	48	96	192	384

Linear or exponential?

 $f(x) =$

12.

x	0	1	2	3	4	5	6	7
y	50	35	24.5	17.15	12.005	8.4035	5.88245	4.117715

Linear or exponential?

 $f(x) =$

For 13-14, **WITHOUT A CALCULATOR** make a table for the linear or exponential function.

13.

x	$f(x) = \frac{1}{2}x + 8$
0	
1	
2	
3	
4	
5	
6	

14.

answer in fractions

x	$f(x) = 8 \cdot \left(\frac{1}{2}\right)^x$
0	
1	
2	
3	
4	
5	
6	