

Comparing Linear, Exponential, and Quadratic Equations/Expressions

- Based on the difference in x-value & y-values, identify the table as linear, exponential, quadratic, or neither.
- If you identify the table as linear or exponential, write an equation.

1.

x	-3	-2	-1	0	1	2	3
y	14	10	6	2	-2	-6	-10

2.

x	-3	-2	-1	0	1	2	3
y	$\frac{1}{2}$	1	2	4	8	16	32

3.

x	-3	-2	-1	0	1	2	3
y	21	12	5	0	-3	-4	-3

4.

x	-3	-2	-1	0	1	2	3
y	-16	-13	-10	-7	-4	-1	2

5.

x	-3	-2	-1	0	1	2	3
y	-14	-9	-4	1	6	11	16

6.

x	-3	-2	-1	0	1	2	3
y	-18	-6	-2	0	2	6	18

7.

x	-3	-2	-1	0	1	2	3
y	4	8	16	32	64	128	256

8.

x	-3	-2	-1	0	1	2	3
y	$\frac{1}{27}$	$\frac{1}{9}$	$\frac{1}{3}$	1	3	9	27

9.

x	-3	-2	-1	0	1	2	3
y	30	20	12	6	2	0	0

10.

x	-3	-2	-1	0	1	2	3
y	11	9	7	5	3	1	-1

11.

x	-3	-2	-1	0	1	2	3
y	$\frac{1}{9}$	$\frac{1}{3}$	1	3	9	27	81

12.

x	-3	-2	-1	0	1	2	3
y	-27	-9	-3	0	3	9	27

13.

x	-3	-2	-1	0	1	2	3
y	0	5	8	9	8	5	0

14.

x	-3	-2	-1	0	1	2	3
y	3	0	-1	0	3	8	15

15.

x	-3	-2	-1	0	1	2	3
y	1	0	-1	-2	-1	0	1

16.

x	-3	-2	-1	0	1	2	3
y	$\frac{9}{8}$	$\frac{9}{4}$	$\frac{9}{2}$	9	18	36	72