

Exponential Functions - Tables

Write the exponential equation for the given tables.

1.

x	y
0	1000
1	100
2	10
3	1

$$y = 1000\left(\frac{1}{10}\right)^x$$

2.

x	y
0	6
1	12
2	24
3	48

$$y = 6(2)^x$$

3.

x	y
0	25
1	5
2	1
3	.2

$$y = 25\left(\frac{1}{5}\right)^x$$

4.

x	y
0	1
1	4
2	16
3	64

$$y = 1(4)^x$$