

Linear vs Exponential Functions

Do Now

Directions: For each table, identify the function it represents (linear or exponential), then write the equation in $y = mx + b$ form (linear) or $y = a(b)^x$ form (exponential).

1.

x	f(x)
-1	5
0	9
1	13
2	17

2.

x	f(x)
-1	36
0	18
1	9
2	4.5

3.

x	f(x)
-1	7
0	21
1	63
2	189

4.

x	f(x)
-1	-10
0	-15
1	-20
2	-25

5.

x	f(x)
-1	-2
0	-10
1	-50
2	-250

6.

x	f(x)
-1	-16
0	-10
1	-4
2	2

7.

x	f(x)
-1	3
0	30
1	300
2	3000

8.

x	f(x)
-1	81
0	27
1	9
2	3

To check/get answers on calc: **STAT** **1: Edit** type #'s into L₁ + L₂, then **STAT** **5: LinReg** for linear and **0: ExpReg** for exponential.