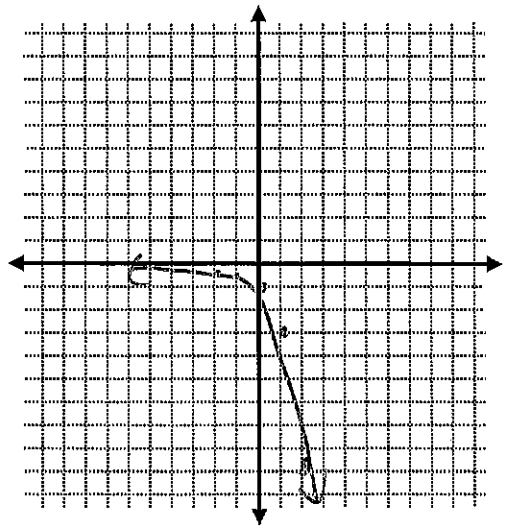
Directions: Complete the table and then plot the ordered pairs to graph the function.

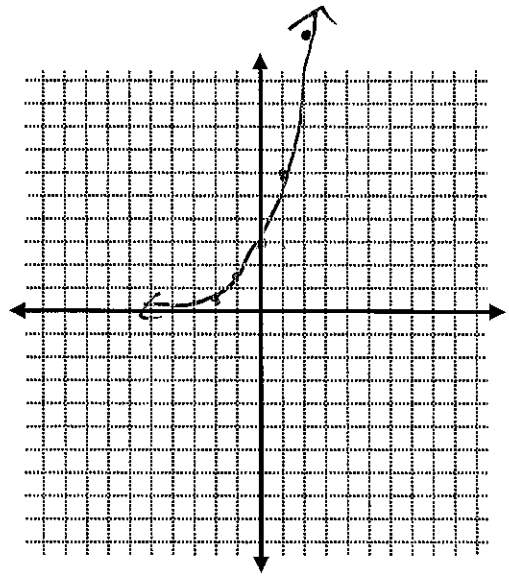
1. $f(x) = -3^x$

x	f(x)
0	-1
1	-3
2	-9
-1	$-\frac{1}{3}$
-2	$-\frac{1}{9}$



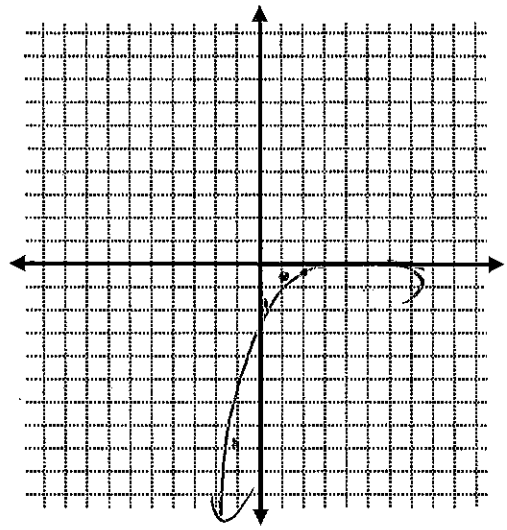
2. $f(x) = 3 \cdot 2^x$

x	f(x)
0	3
1	6
2	12
-1	$\frac{3}{2}$
-2	$\frac{3}{4}$



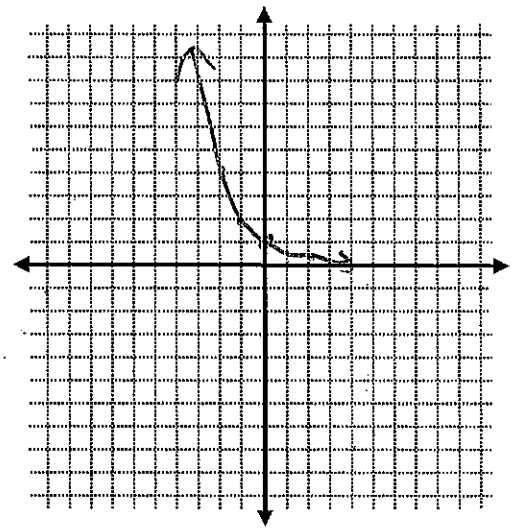
3. $f(x) = -2 \cdot \frac{1}{4}^x$

x	f(x)
0	-2
1	$-\frac{1}{2}$
2	$-\frac{1}{10}$
-1	-8
-2	-32



4. $f(x) = \frac{1}{2}^x$

x	f(x)
0	1
1	$\frac{1}{2}$
2	$\frac{1}{4}$
-1	2
-2	4



Determine whether the table represents a linear function or an exponential function. Can you write a function rule to model the data?

linear

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

+2, +2, +2, +2

$y = 2x$

exponential

x	y
1	2
2	4
3	8
4	16
5	32

×2, ×2, ×2, ×2

$y = 2^x$

neither

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

$y = x^2$