

Name: \_\_\_\_\_

Algebra 2 Functions and Calculators

1.


$$y=2x+1$$

2.


$$y=2x+2$$

3.


$$y=2^x$$

4.


$$y=\frac{1}{2}x+8$$

5.

x	y
-3	-32
-2	-28
-1	-24
0	-20
1	-16
2	-12
3	-8

11.

x	y
-3	1/64
-2	1/16
-1	1/4
0	1
1	4
2	16
3	64

6.


$$y=x^2$$

7.


$$y=3x+4$$

8.


$$y=x^2+6$$

9.


$$y=(4+3)^x$$

10.

x	y
-3	1/13
-2	8
-1	5
0	4
1	5
2	8
3	13

12.

x	y
-3	-2 <sup>24/27</sup>
-2	-2 <sup>8/9</sup>
-1	-2 <sup>2/3</sup>
0	-2
1	0
2	6
3	24

$$\begin{aligned} A &= 8x+2 \\ B &= 4x-20 \\ C &= 6x+12 \\ D &= x^2 \\ E &= x^2+2 \\ F &= x^2+4 \\ G &= 4^x \\ H &= 2^x \\ I &= 2^x-4 \\ J &= 3^x-3 \end{aligned}$$

# Exponential Functions: Graphing

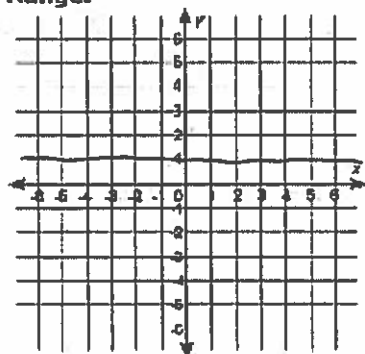
Graph the function using a table of values. Define the domain and range.

1)  $y = 2^x$

x	-2	-1	0	1	2
y					

Domain:

Range:

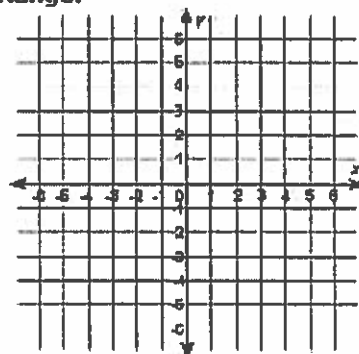


3)  $y = \frac{1}{2}^x$

x	-2	-1	0	1	2
y					

Domain:

Range:

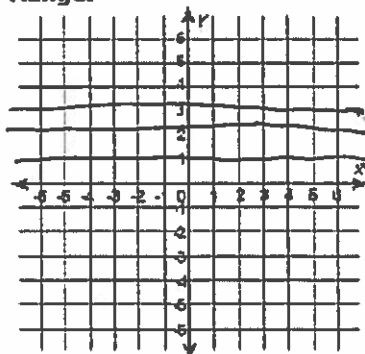


2)  $y = -(3^x)$

x	-2	-1	0	1	2
y					

Domain:

Range:



4)  $y = \frac{1}{4}^{-x}$

x	-2	-1	0	1	2
y					

Domain:

Range:

