Name _____ Date _____ Period _____

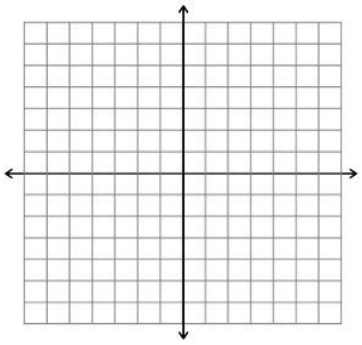
WS 5-2

Exponential Function Graphing

Graph each function. Then, identify the domain, range, and y-intercept.

1. $y = 2^x$

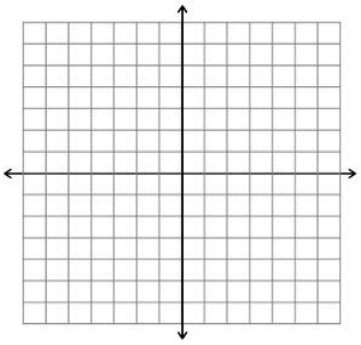
x	*y*	(*x*, *y*)
-2		
-1		
0		
1		
2		



Domain:	
Range:	
***y*-intercept:**	

2. $y = -(5)^x$

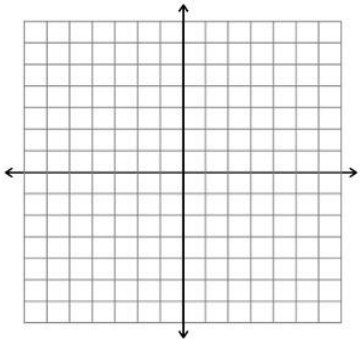
x	*y*	(*x*, *y*)
-2		
-1		
0		
1		
2		



Domain:	
Range:	
***y*-intercept:**	

3. $y = -(\frac{1}{5})^x$

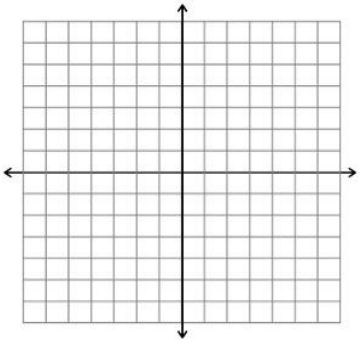
x	*y*	(*x*, *y*)
-2		
-1		
0		
1		
2		



Domain:	
Range:	
***y*-intercept:**	

4. $y = 3(\frac{1}{4})^x$

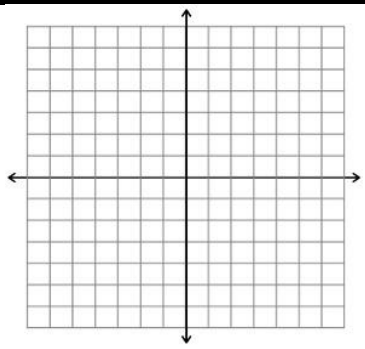
x	*y*	(*x*, *y*)
-2		
-1		
0		
1		
2		



Domain:	
Range:	
***y*-intercept:**	

5. $y = 6^x + 3$

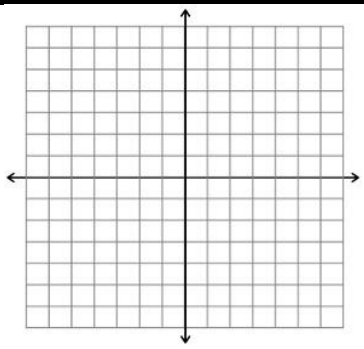
x	*y*	(*x*, *y*)
-2		
-1		
0		
1		
2		



Domain:	
Range:	
***y*-intercept:**	

6. $y = 2 - 2^x$

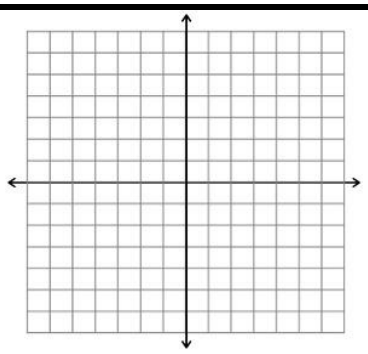
x	*y*	(*x*, *y*)
-2		
-1		
0		
1		
2		



Domain:	
Range:	
***y*-intercept:**	

7. $y = 3(2)^x - 4$

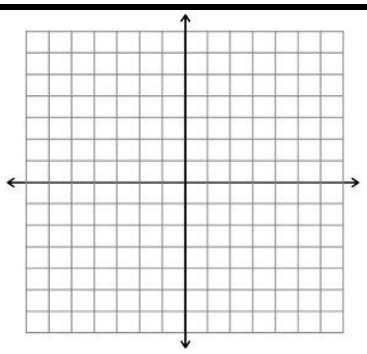
x	y	(x, y)
-2		
-1		
0		
1		
2		



Domain:	
Range:	
***y*-intercept:**	

8. $y = 2^{x+1}$

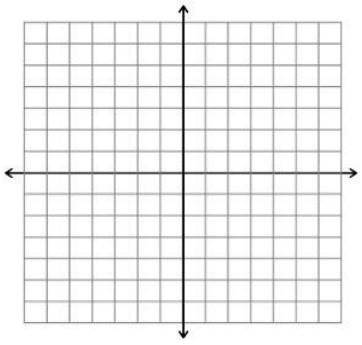
x	y	(x, y)
-2		
-1		
0		
1		
2		



Domain:	
Range:	
***y*-intercept:**	

9. $y = 3^{x-1} - 1$

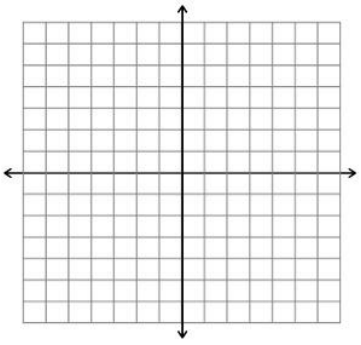
x	y	(x, y)
-2		
-1		
0		
1		
2		



Domain:	
Range:	
***y*-intercept:**	

10. $y = 2-(\frac{1}{2})^x$

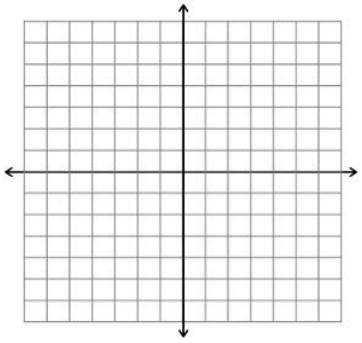
x	y	(x, y)
-2		
-1		
0		
1		
2		



Domain:	
Range:	
***y*-intercept:**	

11. $y = -(2)^x + 4$

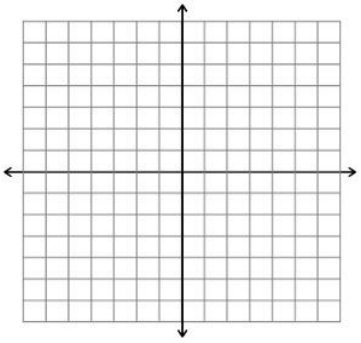
x	y	(x, y)
-2		
-1		
0		
1		
2		



Domain:	
Range:	
***y*-intercept:**	

12. $y = 4^x - 6$

x	y	(x, y)
-2		
-1		
0		
1		
2		



Domain:	
Range:	
***y*-intercept:**	

Determine if the set of data is ***linear***, ***exponential***, or ***neither***.

13.

x	1	2	3	4	5	6
y	−4	−2	0	2	4	6

14.

x	2	4	6	8	10	12
y	1	4	16	64	256	1024

15.

x	−6	−3	0	3
y	5	10	15	20

16.

x	20	30	40	50	60
y	1	0.4	0.16	0.064	0.0256