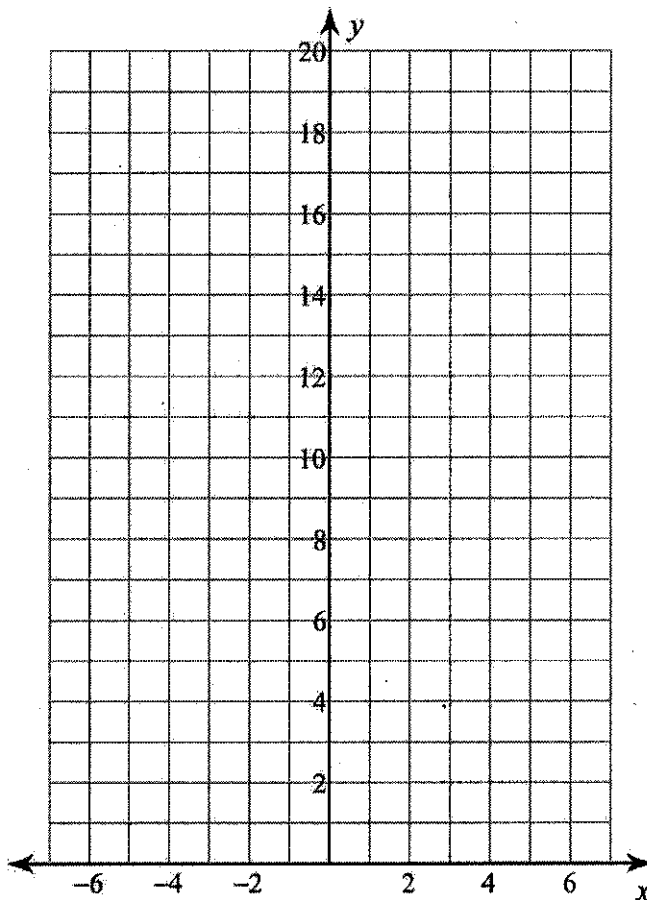## Graphing Exponential Functions Worksheet #2

__Directions__: Answer all questions. Show all work!!!

Sketch the graph of each function. Then, state the Domain, Range, and Y-intercept, and change of Y-values of the function.

1. $y = 8 \cdot \left(\frac{1}{2}\right)^{x}$

X	Y
-1	
0	
1	
2	
3	
4	
5	
6	

Domain:

Range:

Y-Intercept: (,   )

Change in Y-Values:

Growth or Decay? _____

1

2. $y = \frac{7}{2} \cdot 2^x$

X	Y
-4	
-3	
-2	
-1	
0	
1	
2	
3	
4	

Domain:

Range:

Y–Intercept: (,   )

Change in Y-Values:

Growth or Decay? _____

2
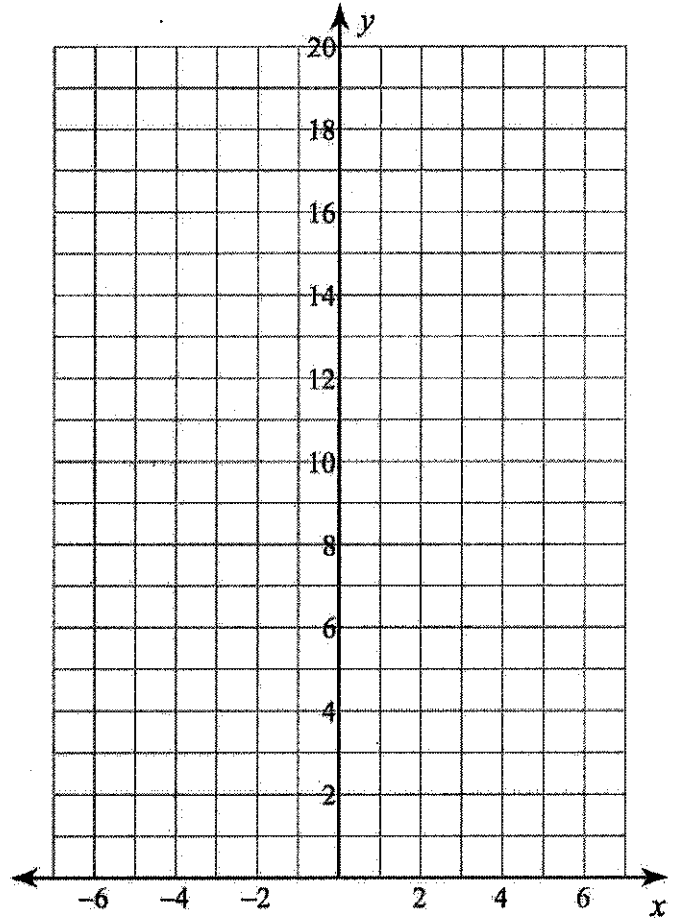
3. $y = -6 \cdot \left(\frac{1}{2}\right)^x$

X	Y
-2	
-1	
0	
1	
2	
3	
4	
5	
6	
7	
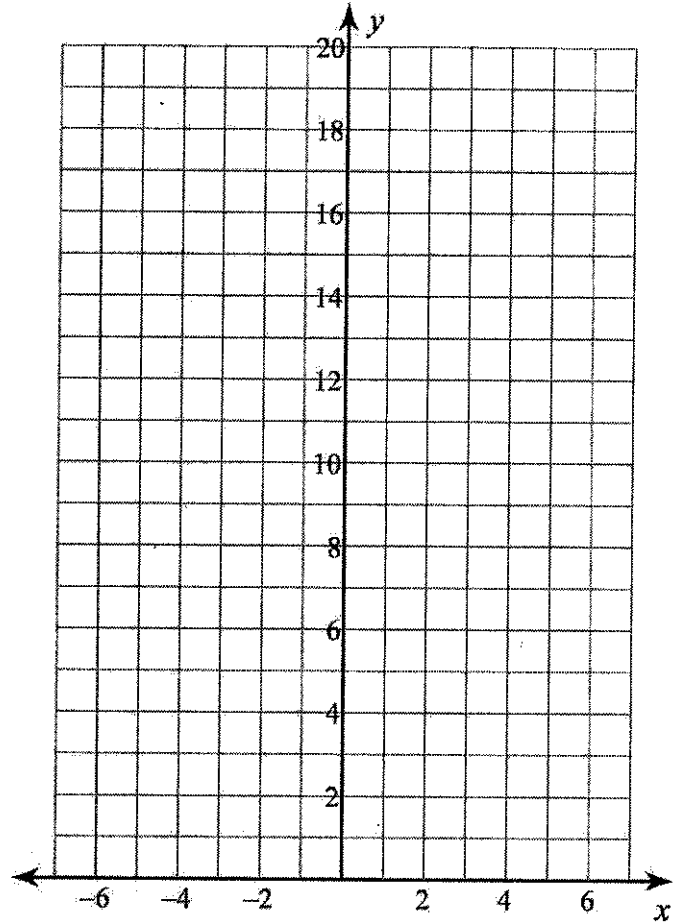
Domain:

Range:

Y-Intercept: (,   )

Change in Y-Values:

Growth or Decay? _____

4. $y = 0.5^x$

X	Y
-3	
-2	
-1	
0	
1	
2	
3	
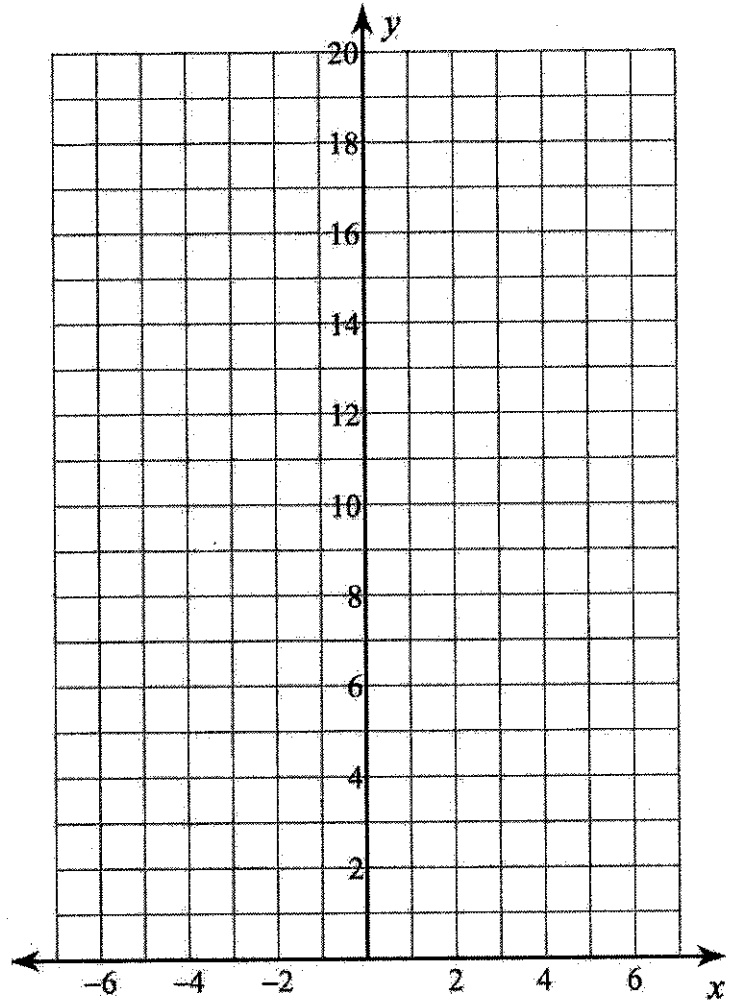
Domain:

Range:

Y-Intercept: (,   )

Change in Y-Values (b):

Growth or Decay? _____