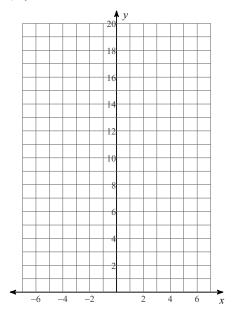
Exponential Functions

Date_____ Period____

Sketch the graph of each function.

1)
$$y = 4^x$$



2) Create a table of values.

y-intercept _____

Domain____

Asymtote _____

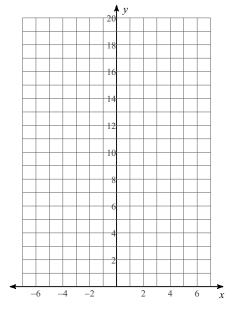
Range

As x approaches ∞ y approaches _____.

As x approches $-\infty$ y approches _____.

Sketch the graph of each function.

3)
$$y = \frac{1}{4} \cdot 8^x$$



4) Create a table of values.

Growth or Decay:

y-intercept _____

Domain____

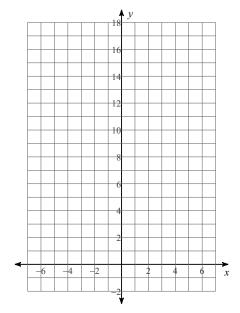
Range _____

Asymtote _____

As x approaches ∞ y approaches _____.

Sketch the graph of each function.

5) $y = 3^x - 2$



6) Create a table of values.

Growth or Decay: ______
y-intercept _____

Domain _____

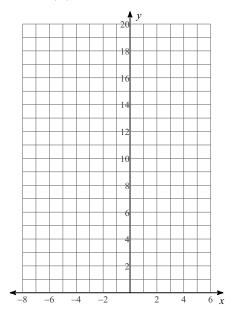
Range _____

As x approaches ∞ y approaches _____.

As x approches $-\infty$ y approches _____.

Sketch the graph of each function.

7)
$$y = \left(\frac{1}{2}\right)^{x+1}$$



8) Create a table of values.

Growth or Decay: _____

y-intercept _____

Domain_____

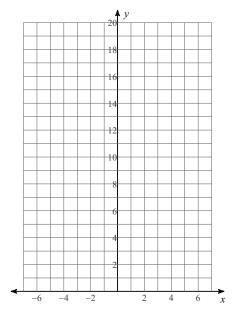
Range ____

Asymtote _____

As x approaches ∞ y approaches .

Sketch the graph of each function.

9) $y = 2^x$



10) Create a table of values.

Growth or Decay: ______
y-intercept _____

Domain _____

Range _____
Asymtote _____

As x approaches ∞ y approaches _____.

As x approches $-\infty$ y approaches _____.

Sketch the graph of each function.

$$11) \quad y = 3 \cdot \left(\frac{1}{2}\right)^x$$

			20	. <i>y</i>							
			18								
			16								
			14								
			\vdash		_		_	_		-	
			12				_			-	
			\vdash	-			_	_		-	
			10				_	_		-	
				-			_	_			
			8								
			6								
			4								
			2								
			4								
-6	-4	-2			- 2	2		1	(5	_

12) Create a table of values.

Growth or Decay: ______
y-intercept _____

Domain _____

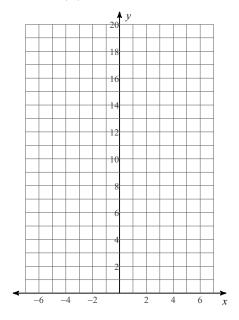
Range _____

Asymtote ______

As x approaches ∞ y approaches ______.

Sketch the graph of each function.

13)
$$y = \left(\frac{1}{4}\right)^x + 1$$



14) Create a table of values.

Growth or Decay: ______
y-intercept _____

Domain____

Range _____

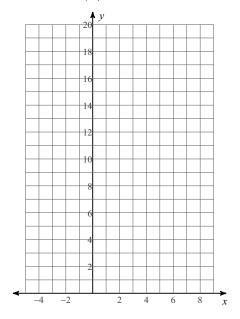
Asymtote _____

As x approaches ∞ y approaches _____.

As x approches $-\infty$ y approches _____.

Sketch the graph of each function.

15)
$$y = 4 \cdot \left(\frac{1}{2}\right)^{x-2}$$



16) Create a table of values.

Growth or Decay: _____

y-intercept _____

Domain____

Range _____

Asymtote _____

As x approaches ∞ y approaches _____.