Name:	 	 	

Math 620 B Block

Exponential Growth and Decay Homework	

Equation	Graph – Use the values from your table	Equation		
$y = 3^{x}$ Table $ \begin{array}{c c} X & Y \\ -3 & \\ -2 & \\ -1 & \\ 0 & \\ 1 & \\ 2 & \\ 3 & \\ \end{array} $	10 9 8 7 5 5 4 3 2 1 1 2 3 4 5 6 7 8 9 10 	$y = \left(\frac{1}{3}\right)^{x}$ Table $\begin{array}{c c} X & Y \\ -3 & \\ -2 & \\ \hline -1 & \\ 0 & \\ 1 & \\ 2 & \\ 3 & \\ \end{array}$	10 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	

What similarities and differences do you notice between the two graphs? Between the equations?

What is the domain of this function? The range? Can the output of this function ever be negative? How do you know?