MA 180 CHAPTER 4: Exponential and LOGARITHMIC FUNCTIONS SECTION 4.3: Exponential FUNCTIONS

SKETCH THE GRAPH OF $f(x) = 3^x$

Х	f(x)	Note in the table for each unit increase in x,
-3		the y value is tripled. Compare this to how a linear function is recognized in its table form.
-2		For linear functions we had a slope addition
-1		Base Multiplier Property: For an
0		exponential function of the form $y = ab^x$, for each unit increase in x, the value of y is
1		multiplied by b.
2		
3		

What size window do you need to graph the points in the table above?

X _{min}	=	$Y_{min} =$	Graph using	this window.
				•••••••••••

X_{max} = _____ Y_{min} = _____

х	$g(x) = 4\left(\frac{1}{2}\right)^{x}$	$h(x) = 7(2)^{x}$	$\mathbf{j}(\mathbf{x}) = -4\left(\frac{1}{2}\right)^{x}$	k(x) = -(2) ^x
-3				
-2				
-1				
0				
1				
2				
3				