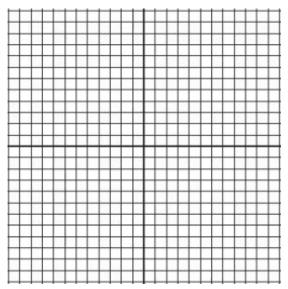
PRECALC JOURNAL Exponential & Logarithmic Functions

1.	(a) The two major characteristics of an exponential function are
	(b) The base of an exponential function must be
2.	(a) Once you have the equation of a function typed in $y =$ in a graphing calculator, two ways to
	substitute a number in the function and find the value are
	or
	(b) To find the value where a function equals a specific number with your calculator, you should
3.	(a) The number <i>e</i> was discovered by
	and resulted from the formula
	(b) The value of <i>e</i> to the nearest thousandth is
	(c) The base of a common logarithm is while the base of a natural logarithm is
4.	(a) A logarithmic function is the of an exponential
	function.
	(b) In interval notation, the domain of an exponential function is while the
	domain of a logarithmic function is
	(c) The graph of an exponential function always passes through the coordinate and has
	a asymptote, while the graph of a logarithmic function always includes
	the coordinate and has a asymptote.
5.	(a) Logarithms were originally developed by in order to
	while today the primary purpose of a logarithm
	in mathematics is to
	(b) An equation with a logarithm on only one side of the equal sign can be solved by
	(c) Three examples of real world problems that require the use of exponential or logarithmic
	functions are
6.	(a) When doing curve fitting, the term for <i>r</i> is, and it, and it
	(b) r^2 is called the and it describes

- 7. (a) The constant value in the numerator of a logistic function is called the ______.
 (b) On the graph of a logistic function, this value indicates ______.
- 8. Important Rules, Formulas, Etc.
 - a) Relationship between exponential form and logarithmic form.
 - b) 3 properties of logarithms

c) Draw and label graphs of $y = e^x$ and $y = \ln x$. Clearly show all asymptotes and a T-Table of 3 sets of coordinates used to graph each function.



- d) Attach the formula sheet for exponential applications.
- e) Attach the sheet showing all types of regression, their equations, and graphs.