Name

CALCULUS CH. 1 JOURNAL Precalc Review

l.	What must be considered to find the domain of each of the following types of functions?						
	Rational Function						
	Polynomial						
	Odd Root						
	Even Root						
2.	To find the domain of a function created by the combination of two functions such as $f + g$ or $f \circ g$, you must consider						
	and						
3.	When a rational function has factors in the numerator and denominator which cancel, a will occur in the graph at the point where						
1 .	The two steps for finding the equation of the inverse of a function are:						
	1)						
5.	The inverse function of $y = e^x$ is						
	a) When breaking a rational expression into partial fractions, you determine whether to put A,						
۶.	when oreaking a rational expression into partial fractions, you determine whether to put 11,						
	$Ax + B$, or $Ax^2 + Bx + C$ in the numerator by						
	b) If the factors of the denominator of a rational expression are $x^3(x^2 + 5)$, then the fractions which						
	must be included in the set up are						
7.	Holes occur in a graph when						
2	To break an absolute value function into a piecewise function with no absolute value, you must						
	1)						
	2)						
9.	The <i>x</i> -coordinate of the vertex of a parabola whose equation is in <u>standard</u> form can be found by						
	while the <i>y</i> -coordinate can be found by						
10.	. Important Rules, Formulas, Etc. List the following rules, formulas, or steps. When giving formulas, be sure to indicate what each part of the formula represents.						
	a) Three properties of logarithms						

b)	Definitions of six trig functions in terms of x , y , & r					
c)	Quadrants where	trig functions are positive	(d) Quadrants where inver defined	where inverse trig functions are		
e)	Show how to identify each of the following using the equation $y = a$ $(bx + c) + d$ where the blank is filled in by one of the trig functions at the top of the chart.					
		sin or cos	sec or csc	tan or cot		
	Amplitude					
	Period					
	Phase Shift					
	Vertical Shift					
f)	Slope-intercept fo	orm of a line	(f) Point-slope formula			
g)	Quadratic formul	a				
1. Attach your graph paper showing all the common graphs and the transformation rules.						