CALCULUS JOURNAL CURVE SKETCHING

1.	(a) The derivative determines where a graph is concave up and down while
	the derivative determines where a graph is increasing & decreasing.
2.	(a) Two ways to find critical points are
	or by
	(b) Points found by the second method of (a) are called
	(c) On a graph, critical points are usually located at
	(d) On a graph inflection points are found by
	and are located where
3.	(a) High or low points on a curve, compared to the points on either side of them, are called
	or extrema.
	(b) The highest and lowest points on a curve are called
4.	How is the curve sketching process influenced by a function that has vertical asymptotes?
5.	(a) Relative extrema can be found without graphing the function by using the
	and tests.
	(b) The first derivative test is nicknamed
	(c) The derivative test is sometimes inconclusive if
6.	(a) On a closed interval, such as $[-9,5]$, you determine whether a critical point is an absolute
	maximum or minimum by:
	1)
	2)
	(b) On an open interval, such as $(-\infty, 6)$, you determine whether a critical point is an absolute
	maximum or minimum by:
	1)
	2)
	3)
7.	
	Critical points
	Increasing & decreasing intervals
	Inflection points
	Concave up & down intervals

- Important Rules, Formulas, Etc.
 (a) Mean Value Theorem formula
 - (b) First Derivative Test steps

(c) Second Derivative Test steps

(d) Methods for identifying asymptotes <u>Vertical</u>

Horizontal

Slant (Oblique)

Curvilinear

(e) Keystrokes necessary to perform long division in CAS.