RIDDLE   NAME _____
CALCULUS
SECTION 3-6 Practice – 25 Points

ANALYZE AND SKETCH THE GRAPH OF EACH FUNCTION LISTED BELOW. YOUR SUMMARY SHOULD
INCLUDE THE FOLLOWING INFORMATION:

1.   domain   10.   second derivative
2.   range   11.   critical numbers
3.   vertical asymptotes   12.   sign analysis
4.   horizontal asymptotes   13.   concave up / down intervals
5.   first derivative   14.   points of inflection
6.   critical numbers   15.   x-intercepts
7.   sign analysis   16.   y-intercepts
8.   increasing/decreasing interval   17.   the sketch of the graph
9.   maximum, minimum, saddle point values

Function: $f(x) = \dfrac{\cos x}{1 + \sin x}$ $[0, 2\pi]$