## **CRITICAL POINTS - PART 2**

1. In each case, sketch a graph of a <u>continuous</u> function with the given properties.



2. Use Calculus to determine i) critical points, ii) local extrema, iii) inflection points, and iv) intervals where f(x) is concave up or down. Include an accurate graph that illustrates these features. Do this on a separate sheet of paper.

A. 
$$f(x) = x^4 + 2x^3 - 1$$
  
B.  $f(x) = \frac{8x - 16}{x^2}$   
C.  $f(x) = 2x + 3x^{2/3}$