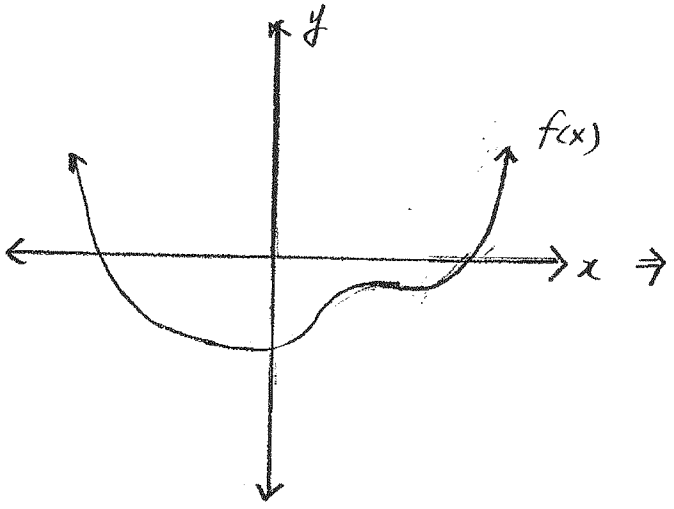
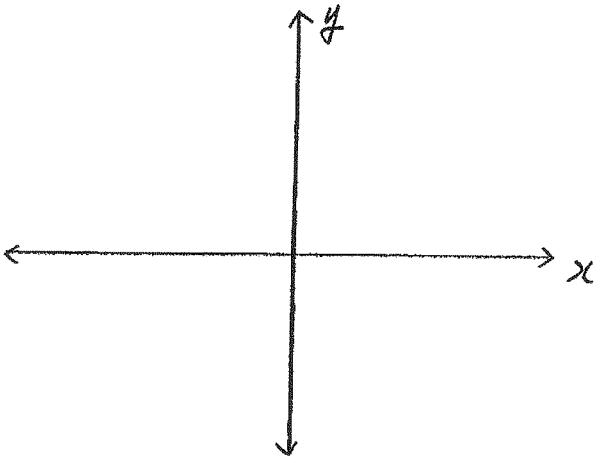
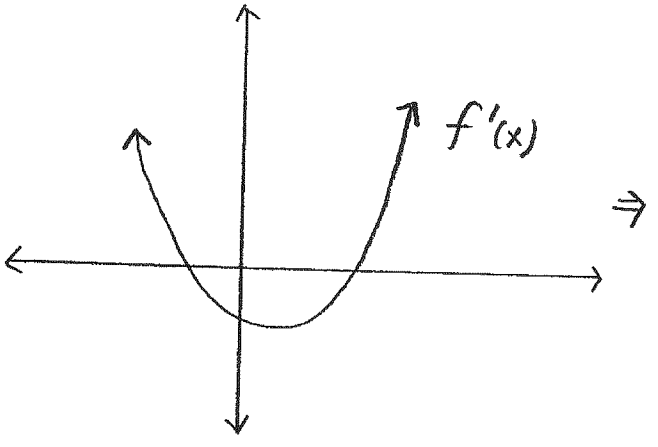
IB Calculus Curve Analysis Warm Up NO CALCULATOR Name: _____

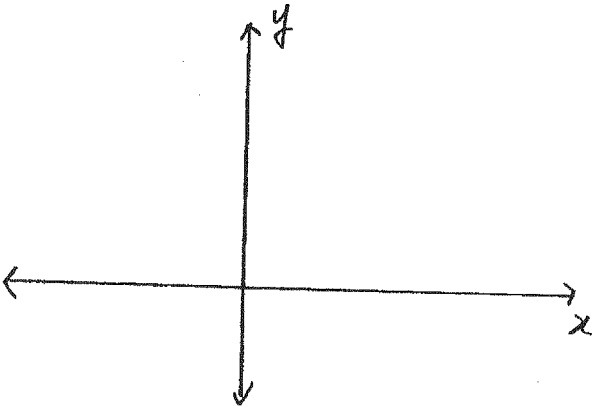
1. Give the graph of f(x), sketch the graph of $f'(x)$ and the graph of $f''(x)$.

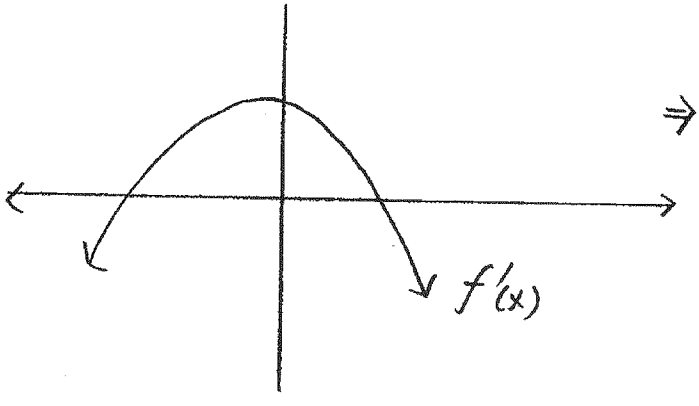


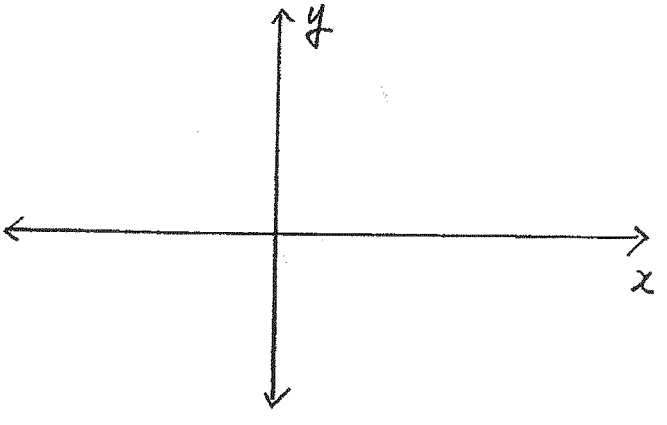


2. 1. Give the graph of $f'(x)$, sketch the graph of $f(x)$. Show clearly the location of any stationary points and points of inflection.



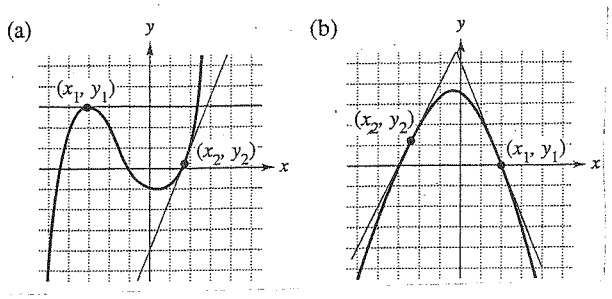


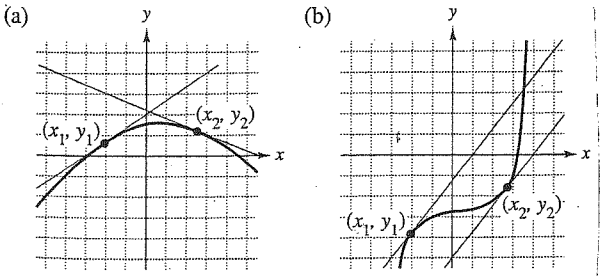




IB Math 2 **Derivative** **Name:** _____ **Period:** _____

1. Estimate the slope of tangent line at the points (x_1, y_1) and (x_2, y_2)





2. For each function given, sketch the graph of the derivative function. Locate x-intercepts on the derivative graph by recalling that the derivative is zero if the tangent line is horizontal and has a high point or a low point where the derivative is steepest.