**Things to Know for the Chapter 4 Calculus Test**

* Requirements for a function to be differentiable
* How to determine a local minimum/maximum
* How to find a point where the function has a horizontal tangent
* Growth rate of functions
* How to find points of inflection
* Given a derivative function, how to find out things about the original function like where it has maxima, minima and points of inflection
* How to find out where a function is decreasing/increasing
* How to find derivative of inverse function
* Given a graph of a function, how to tell if the first and second derivatives are positive or negative at different points
* How to do a related rate problem
* Given the graph of the derivative, identify a possible graph of the function
* Given two points on a differentiable function, identify various characteristics of the function
* Given a velocity function, find out things about velocity and position
* Given a slope field, sketch a solution curve through a point, find the second derivative given the first derivative, find a particular solution

Note: Tear the last problem off. I decided not to assign it.