

Review for Quiz 5.1-5.2

1. Be able to use characteristics of the first and second derivatives to fully explain the function.
2. From the graph of the first derivative be able to:
 - Find increasing/decreasing intervals
 - Locate and identify all extrema (including type)
 - Locate all inflection points
 - Identify concavity intervals
3. Be able to sketch reasonable function from the graph of the second derivative.
4. From a given function be able to:
 - Identify all critical numbers
 - Find increasing/decreasing intervals
 - Locate all inflection points
 - Identify concavity intervals
 - Use 2nd Derivative Test to determine the nature of critical points