Section 3.1 – Calculus One – Absolute Extrema

In section 3.2 we found relative extrema (maximums and/or minimums) of a function with domain $= (-\infty, \infty)$. Given a closed interval we can find absolute extrema by examining the relative extrema as well as the value of the function at the endpoints of the interval.

In class work the following examples from page 169-171 in the text: Determine the extrema for the following functions over the given interval, indicating which extrema is the absolute maximum and absolute minimum.

Problem 24

Problem 28

Problem 34

Application: Problem 59

Homework:

Section 3.1 Problems 13, 19, 21, 23, 29, 39, 60