

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF UTAH  
**Calculus I**  
**MATH 1210 – Section 023 – Spring 2025**  
**Homework 8**  
**Local extrema**

**Due: Friday, March 7, 2025**

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Submit your homework assignment on Canvas via Gradescope.

Write your solutions clearly and legibly. Circle or somehow clearly identify the final answer for each problem.

Problems from course textbook: *Calculus* (9th ed), by Varberg, Purcell, Rigdon.

Problem A.B.C means problem #C from section A.B in the book.

Problems 3.3.1  
3.3.3  
3.3.6  
3.3.9  
3.3.12  
3.3.17  
3.3.21  
3.3.22  
3.3.25  
3.3.31  
3.3.32