

## Math 421 - Homework 10

**Reading assignment:** Chapters 10-11 of the Spivak textbook.

**Written HW Assignment:** Please write your solution to each problem on a separate page, with your name and the full problem statement at the top of the page. Your solutions to all problems should be written in complete sentences, with proper grammatical structure. Typed solutions would be added one extra point in this homework.

1. Prove the Cauchy Mean Value Theorem by Rolle's Theorem
2. Prove the Mean Value Theorem by the Cauchy Mean Value Theorem
3. Prove the Rolle's Theorem by the Mean Value Theorem