MATH 223 Hints and Answers

Assignment 10

3. This is a problem about inequalities involving real numbers. It does not involve any differentiation. You might begin by drawing 2 pictures, one where M is positive and another where it is negative to get a sense of what these inequalities are asserting geometrically.

- 7. Consider what happens if you approach the origin along the line y = x,
- **10.** You've done this problem in a previous assignment.
- **15.** Theorem 4.1.1 will be helpful along with the definition of differentiability.
- **16.** Use the results of Exercise 15.