

# **Math 157 - Quiz 8**

October 28, 2015

Name \_\_\_\_\_

Score \_\_\_\_\_

Show all work. Supply explanations when necessary.

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1. (4 points) Find the critical points of the function  $f(x) = \sqrt[3]{x} - x$ .

2. (6 points) Consider the function  $g(x) = 2x^3 + 3x^2 - 36x + 8$ . Find open intervals on which  $g$  is increasing/decreasing. Then identify all relative extreme values.