

Math 241 Spring 2019 Professor MG

Quiz 6

Name: \_\_\_\_\_

Show all work and circle/box your final answer. All answers must be simplified unless stated otherwise.

1. Find the absolute extrema of  $f(x) = x^2 - 2x$  on  $[0, 3]$

2. Find all numbers  $c$  that satisfy the conclusion of the Mean Value Theorem for  $f(x) = x^2 + 2x + 1$  on the interval  $[0, 1]$ .

Hint/Reminder: The conclusion of MVT states  $f'(c) = \frac{f(b) - f(a)}{b - a}$