Quiz: 29

Present neatly on separate paper. Justify for full credit. No Calculators.

Name ______ Score _____ 15 minutes 1.

Show that the equation $x^3 - 15x + c = 0$ has at most one root in the interval [-2, 2].

2.

Let $f(x) = 1 - x^{2/3}$. Show that f(-1) = f(1) but there is no number c in (-1, 1) such that f'(c) = 0. Why does this not contradict Rolle's Theorem?