

Name:

Sec. 4.2 – Mean Value Theorem

Math 251

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

2. Show that $f(x) = 2x + \cos x$ has exactly one root on $(-1, 1)$