

MTH 132.12 Quiz 7
Friday 18 March 2011

Name:

Show *all* your work. Points will be deducted for incomplete work. No calculators are allowed.

Let $g(x) = (1 - x^2)^{\frac{1}{3}}$.

1. What is $g'(x)$?

2. Find the critical points of $g(x)$.

3. For each critical point, say whether it is where g achieves a local maximum, a local minimum, or neither. Explain your reasoning.