

Math 180
Winter, 2009

Name _____

Homework #11
Due Wednesday, January 28
No late papers accepted! No excuses!

1. Determine if the Mean Value Theorem can be applied. If it can be applied, find the value of c guaranteed. If it cannot be applied, explain why.

$$f(x) = \sqrt{x-2}$$
$$[2,6]$$

2. Let $f(x) = (x^2 - 4)^{\frac{2}{3}}$.

a) Find the relative extrema.

b) Determine where the graph of the function is increasing and where the graph of the function is decreasing.