

Math 181

Quiz 6

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

October 1, 2002

Show all work for credit.

Leave all answers as exact answers unless otherwise stated.

1. Use the limit definition of a derivative to find  $f'(x)$  if  $f(x) = \sqrt{3x}$

2. Find  $f'(x)$  if  $f(x) = \frac{\pi e^x}{\tan(x)}$