

Math 181

Quiz 12

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

October 25, 2002

Show all work for credit.

Leave all answers as exact answers unless otherwise stated.

1. Let  $f(x) = \frac{x}{(1+x)^2}$ .

- (a) Find the intervals on which  $f$  is increasing.
- (b) Find the points of  $f$  that are local maximums and minimums.
- (c) Find the intervals of concavity and the inflection points.

2. Use the above information to sketch a graph of  $f$ .