Math 181 Quiz 5 Name: _____

September 27, 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 $f(x) = \dfrac{1}{x}$

2. Find $f'(x)$ if $f(x) = 2e^x - \sqrt{2x} + 7$

3. (Bonus) Use the limit definition of a derivative to find $f'(x)$ if $f(x) = \dfrac{x}{x^2 - 1}$