MAT 141
Quiz #9

December 2, 2004

Intructions: You have 15 minuntes for this quiz. You may not use any books, notes, or calculators. Justify every statement that you make. If you wish to use a theorem proved in class, state the theorem precisely. Good luck.

Compute the derivative of each of the following functions.

1. $\sec x$

2. $\sqrt{x+\sqrt{x+\sqrt{x}}}$

3. $\sin 3x$

4. $(x^2+x)^4(2x^5-3x+1)^7$

5. $\dfrac{x^4-1}{x-1}$