$\begin{array}{c} {\rm MTH~121-Fall-2004} \\ {\rm \bf Essex~County~College-Division~of~Mathematics} \\ {\rm Quiz~\#~10^1-December~3,~2004} \end{array}$

Name:	
Signature:	

Show all work clearly and in order, and box your final answers. Justify your answers algebraically whenever possible. You have 20 minutes to take this 10 point quiz. When you do use your calculator, sketch all relevant graphs and write down all relevant mathematics.

1. Evaluate

$$\int_{-1}^{2} \left(x^2 + 1 \right) \mathrm{dx}$$

- (a) By using the Fundamental Theorem of Calculus.
- (b) By setting up an expression for $\int_{-1}^{2} (x^2 + 1) dx$ as a limit of sums.

¹This document was prepared by Ron Bannon using I⁴TEX.