## Math 182

## **Quiz** 3

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

January 28, 2003

Show all work for credit.

Leave all answers as exact answers unless otherwise stated.

1. Evaluate the following integrals:

## (a) $\int_0^\pi \sin^2(x) dx$

(b) 
$$\int \cos^5(x)\sin^2(x)dx$$

2. What does the Fundamental Theorem of Calculus tell us about the integral:

$$\int_{-1}^{1} \frac{dx}{x^2}$$