Your Name:

Duration of the Quiz is 20 minutes. There are three problems, worth 20 points. Show all your work for full credit. Books, notes etc. are prohibited. Calculators are NOT permitted.

1. Evaluate the integral

$$\int \tan^6 x \, \sec^4 x \, dx$$

2. Evaluate the integral

$$\int \frac{dx}{(x^2 + 9)^2}$$

3. Evaluate the integral

$$\int \frac{6x^2 + 7x - 6}{(x^2 - 4)(x + 2)} \, dx$$