Name:	
MAT 296	

Quiz 5: Trig Sub Fall 2017

**Problem 1:** Integrate the following:

$$\int \frac{x^3}{\sqrt{x^2 - 9}} \, dx$$

**Problem 2:** Integrate the following:

$$\int \frac{x}{\sqrt{x^2 + 9}} \, dx$$

**Problem 3:** Integrate the following:

$$\int_{0}^{1} \frac{dx}{(x^2+1)^{5/2}}$$

**Problem 4:** Integrate the following:

$$\int \frac{dx}{x^2 - 6x + 14}$$