

Math 225

Quiz 1

Name: _____

Due January 18, 2005

Show all work for credit.

1. Work the following integrals:

(a) $\int e^x \sin x dx$

(b) $\int \frac{5x - 1}{x^2 - 1} dx$

(c) $\int e^{x^2} dx$ (Hint: there is no closed form)

2. Find the 5th degree Taylor polynomial of $\frac{\sin x}{1 - x^2}$