

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

**Math 125H**

**Quiz 3**

**January 24, 2002**

Show all work for full credit.

1. (5 points) Suppose

$$g(x) = \int_0^{e^x} \frac{\tan t}{t+3} dt.$$

Find  $g'(x)$ .

2. (5 points) Evaluate the indefinite integral:

$$\int 5x\sqrt{x^2-3} dx$$