

**Quiz #5**

Quiz Section: \_\_\_\_\_

SHOW YOUR WORK

Compute the integrals.

1. (5 points)  $\int_0^{\frac{\pi}{4}} \sec(x) \tan^3(x) dx$

2. (5 points)  $\int \frac{dt}{t^2 \sqrt{t^2 - 9}}$