

Name: _____

Math 252 Calculus II (Bueler)

Wednesday 7 February 2018

Quiz #4

In class. 25 minutes. No textbook or notes or calculator. 30 points total.

1. (7 pts) Evaluate the integral:

$$\int \tan x \sec^3 x \, dx =$$

2. (8 pts) Evaluate the integral and simplify:

$$\int_0^{\pi/2} \sin^5 x \, dx =$$

3. (7 pts) Evaluate the integral:

$$\int \frac{dt}{\sqrt{4+t^2}} =$$

4. (8 pts) Evaluate the integral:

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