

WRITE YOUR NAME:

MAC 2312 Homework 5
Due in class, Friday March 24th
You can use more paper if necessary, but please STAPLE

Question 1. Evaluate the integral.

$$\int_0^2 x e^{2x} dx$$

Question 2. Evaluate the integral.

$$\int \cos^{1/3} x \sin x \, dx$$

Question 3. Evaluate the integral.

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

Question 4. Evaluate the integral.

$$\int \tan^2 x \sec^2 x \, dx$$

Question 5. Evaluate the integral.

$$\int \tan^5 x \sec^4 x \, dx$$

Question 6. Evaluate the integral.

$$\int_{\sqrt{2}}^2 \frac{1}{x^2 \sqrt{x^2 - 1}} dx$$