

**WRITE YOUR NAME:**

MAC 2312 Homework 4  
Due in class, Friday February 23rd  
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.

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

**Question 3.** Evaluate the integral.

$$\int x \ln x dx$$

**Question 4.** Evaluate the integral.

$$\int \sqrt{x} \ln x dx$$

**Question 5.** Evaluate the integral.

$$\int \ln x dx$$