

**WRITE YOUR NAME:**

MAC 2312 Homework 2

Due in class, Friday January 26th

You can use more paper if necessary, but please STAPLE

**Question 1.** Find the area under the graph of  $f(x) = x^{-2/3}$  on the interval  $[1, 27]$ .

**Question 2.** Evaluate the integral.

$$\int_{-1}^2 4x(1 - x^2) dx$$

**Question 3.** Evaluate the integral.

$$\int_1^2 \frac{1}{x^6} dx$$

**Question 4.** Evaluate the integral.

$$\int_{1/2}^1 \frac{1}{2x} dx$$