

**WRITE YOUR NAME:**

MAC 2312 Homework 1

Due in class, Friday January 20th

You can use more paper if necessary, but please STAPLE

**Question 1.** Evaluate the integral.

$$\int \left( 5x + \frac{2}{3x^5} \right) dx$$

**Question 2.** Evaluate the integral.

$$\int x(1 + x^3) dx$$

**Question 3.** Evaluate the integral.

$$\int \frac{x^5 + 2x^2 - 1}{x^4} dx$$

**Question 4.** Evaluate the integral.

$$\int (4x - 3)^9 dx$$

**Question 5.** Evaluate the integral.

$$\int x^3 \sqrt{5 + x^4} dx$$