

Name \_\_\_\_\_

1. (2 points) Evaluate the following integral.

$$\int_0^{\pi/6} \frac{dx}{\sec x + \tan x}$$

2. (3 points) Evaluate the following integral.

$$\int \sec^4 x \tan^3 x \, dx$$

3. (3 points) Evaluate the following integral.

$$\int \sin^5 x \cos^2 x \, dx$$

4. (2 points) Evaluate the following integral.

$$\int \cos^2(3x) dx$$