

Name:

Section: 7 8

1. Evaluate the trigonometric integral $\int \sec^5 x \tan^5 x \, dx$

2. Evaluate the following integral using a trigonometric substitution $\int x^3 \sqrt{1-x^2} \, dx$

3. Evaluate the following integral using trigonometric substitution $\int \frac{dx}{x^2\sqrt{4+x^2}}$