

Name:

Section: 5 6 9 10

1. Use a trigonometric substitution to evaluate  $\int \frac{dx}{x^2\sqrt{9+x^2}}$

2. Evaluate the trigonometric integral  $\int \tan^3 x \sec^4 x dx$

3. Use partial fractions to evaluate  $\int \frac{x+3}{x^2+7x+6} dx$