Name: Section: 1 2

1. Use 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 $\int \frac{x+3}{x^2+7x+6} \, dx$