TECHNICAL CALCULUS II
Spring 1998
Exam 2

Name _____

(15) 1. $\int tg^3 x \, dx$

(15) 2. $\int \frac{1 - \sin x}{1 + \cos x} \, dx$

(15) 3. $\int_1^2 \frac{4x + 6x^2}{x^2 + x^3} \, dx$

(15) 4. Find the volume generated by rotating $y = \sin x$, $0 \leq x \leq \pi$, about the x-axis.

(20) 5. $\int_4^5 \frac{\sqrt{x^2 - 16}}{x^2} \, dx$

(20) 6. $\int \frac{dx}{(x^2 - 4)(x^2 - 9)}$