

MATH U242
QUIZ #2

Name _____

For full credit show all of your work.

Exercise 1 (4pts). Find the indefinite integral

$$\int t \sin(2t) dt.$$

Exercise 2 (3pts). If you had to evaluate the integral $\int \frac{1}{t^3 \sqrt{t^2 - 1}} dt$ what would you do?
Do Not Evaluate The Integral.

Exercise 3 (3pts). Decompose $\frac{10}{(x - 1)(x^2 + 9)}$ by using partial fractions.