

Name: _____ Section: _____

Answer all questions and show your work. Unsupported answers may receive *no credit*. You may not use a calculator on this quiz. Allow 15 minutes for the quiz.

1. (4 points) Find the antiderivative $\int \sin^5(x) dx$.

2. (6 points) Use a trigonometric substitution to evaluate the integral $\int_0^{1/2} \sqrt{1 - 4x^2} dx$.