

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. (3 points) Find the anti-derivative.  $\int \sin(x) \cos^2(x) dx$ .

2. (7 points) Find the anti-derivative.  $\int \frac{1}{(9 - x^2)^{3/2}} dx$