

Name: \_\_\_\_\_ (PRINT IN BLOCK LETTERS)

Date: Sep 25, 2015

No calculators will be allowed on any quiz, midterm exam or on the final exam. Using or having available any calculator or other electronic device during a quiz, midterm exam or the final exam is a violation of the Academic Integrity Policy.

Show all the steps in your solutions.

1. Evaluate the integral  $\int_0^{\pi/2} \sin^3 x \cos^2 x \, dx$ . Simplify your answer.

2. Evaluate the integral  $\int x(\ln x)^2 dx$ .