MATH-242 Spring 2016 **Quiz #7** **Total:** _____ / **10**

Calculus and Analytic Geometry III **Name:** _____

The majority of the credit you receive will be based on the completeness and the clarity of your responses. **Show all of your work and justify your solutions as much as possible.** This is a 15 minute quiz and has 2 questions, for a total of 10 points

(5 points) 1. Calculate the iterated integral

$$\int_{-3}^{3}\int_{0}^{\pi/2}(y+y^2\cos(x))\,dx\,dy.$$

(5 points) 2. Calculate the double integral over the region $R=[0,2]\times[0,3]$

$$\iint_R ye^{-xy}\,dA.$$