

Math 201-141 Quiz 5

Name _____ Section ___ Id _____
Serial#

Q1) Compute the integral

$$\int_0^1 \int_0^1 \int_{x^2}^1 12xze^{zy^2} dydx dz$$

by changing the order of integration in a suitable way.

Q2) Set up triple integrals that give the volume of a sphere of radius R in

- a) spherical coordinates
- b) in cylindrical coordinates.