Name:
March 26, 2015
MAC 2313.3122
Cyr

<div align="center">

Quiz 10

You must show all work to receive full credit!!

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Problem 1. (5 pts) Evaluate $\iiint_{\mathcal{W}} xz\,dV$ using cylindrical coordinates, where

$$\mathcal{W} = \{(x, y, z) \,|\, x^2 + y^2 \leq 1, x \geq 0, 0 \leq z \leq 2\}.$$

Problem 2. (5 pts) Evaluate $\iiint_{\mathcal{W}} \rho^{-3}\,dV$ using spherical coordinates, where

$$\mathcal{W} = \{(x, y, z) \,|\, 2 \leq x^2 + y^2 + z^2 \leq 4\}.$$