

**KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS**  
**DEPARTMENT OF MATHEMATICS AND STATISTICS**  
**MATH 201**  
**QUIZ 7**

Name:

Student ID #:

**Question.** Evaluate the integral

$$\iiint_E yz \cos(x^5) \, dV,$$

where  $E = \{(x, y, z) \mid 0 \leq x \leq 1, 0 \leq y \leq x, x \leq z \leq 2x\}$ .

**Solution.**