"QUIZ" for Lecture 14

| NAME: (print!) Aayushi Kasera Section: |
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E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: q14FirstLast.pdf) ASAP BUT NO LATER THAN Oct. 26, 8:00pm

1. Evaluate the iterated integral

$$\int_0^1 \int_x^{3x} \int_0^y x^2 yz \, dz \, dy \, dx \quad .$$

2. Evaluate the triple integral

$$\int \int \int_E yz \ln(x^5) \, dV \quad ,$$

where

$$E = \{(x,y,z) \, | \, 0 \leq x \leq 1 \, , \, 0 \leq y \leq x \, , \, 2x \leq z \leq 3x \, \} \quad .$$

$$\int_{0}^{\infty} \int_{0}^{\infty} \int_{2\pi}^{3\pi} yz \ln(n^{5}) dzdydn$$

$$= -\frac{1}{4}$$