## "QUIZ" for Lecture 14

NAME: (print!)	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

$$\int_{0}^{1} \int_{x}^{3x} \int_{0}^{y} x^{2}yz dz dy dx$$

$$\int_{0}^{1} \int_{x}^{4y} yz dz$$

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$$\int_{0}^{1} \int_{x}^{4y} yz dz dy dx$$

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2. Evaluate the triple integral

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

where

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

 $\int_{2x}^{3x} 4Z \ln(x^{5}) dz \int_{0}^{x} (yz \ln(x^{5})x) dy$   $= yz \ln(x^{5}) x = yz \ln(x^{5}) \cdot x^{2}$   $\int_{0}^{2} yz \ln(x^{5}) x^{2} \ln(x^{5}) \cdot x^{2}$