MATH 2242-090 — Spring 2016 — Dr. Clontz — Quiz 7

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- Each quiz question is labeled with its worth toward your total quiz grade for the semester.
- On multiple choice problems, you do not need to show your work. No partial credit will be given.
- On full response problems, show all of your work and give a complete solution. When in doubt, don't skip any steps. Partial credit will be given at the discretion of the professor.
- This quiz is open notes and open book.
- This quiz is due at the end of class. Quizzes submitted over one minute late will be penalized by 50%.

- 1. (10 points) Which of these is equal to $\int_0^1 \int_0^x \int_0^y (y+xz) dz dy dx$?
 - $\bigcirc -\frac{6}{11}$ $\bigcirc \frac{2}{25}$ $\bigcirc \frac{7}{60}$

 - $\bigcirc \frac{1}{3}$
 - O None of these

- 2. (10 points) Which of these integrals represents the volume of the solid bounded by x = y, z = 0, y = 0, x = 1, and x + y + z = 0?
 - $\bigcirc \int_1^z \int_0^{1-x} \int_0^{1-y} 1 \ dz \ dy \ dx$

 - $\bigcirc \int_0^1 \int_0^x \int_{-x-y}^0 1 \, dz \, dy \, dx \\
 \bigcirc \int_0^1 \int_0^{1-z} \int_0^{x+y+z} 1 \, dx \, dy \, dz \\
 \bigcirc \int_0^2 \int_0^z \int_0^{1-x-y} 1 \, dx \, dy \, dz$