M	A'	HI	2242-090 -	Spring	2016 -	Dr.	Clontz —	Quiz	6

Name: Solutions

- 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) Evaluate $\int_{1}^{2} \int_{1/x}^{2/x} x e^{x} dy dx$.

$$= \int \left[\frac{1}{2} \left(\frac{1}{2} \times \frac{1}{2} \right) \right]_{x}^{2} dx$$

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2. (10 points) Write the double integral $\iint_T xy \ dA$ as an iterated integral (i.e. set up the bounds, but don't evaluate) where T is the triangle with vertices (-2,0), (0,1), (3,0).