

Quiz #9; Tuesday, date: 03/20/2018
MATH 53 Multivariable Calculus with Stankova
Section #114; time: 2 – 3:30 pm
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Student name:

1. Calculate the iterated integral.

$$\int_0^1 \int_0^1 (x + y)^3 dx dy$$

2. *True / False?* When we are finding the maxima and minima of a nice function with constraint $x^2 + y^2 = 1$, we will always find an absolute maximum and an absolute minimum.
3. *True / False?* The solid under the graph of $z = 8 - x^2 - y^2$ and over the region $[-2, 2] \times [-2, 2]$ can be thought of as the solid when $z = 8 - x^2$ is revolved about the z -axis, and can thus be computed without using a double integral.