

Quiz 3

MATH 324 C. April 19, 2019

You have 5 minutes to complete the quiz.
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Name: _____

1. Let R denote the region in \mathbb{R}^3 bounded by the cylinders $x^2 + y^2 = 4$, $x^2 + y^2 = 9$, and the planes $z = 0$ and $z = x + y + 5$. Use cylindrical coordinates to evaluate

$$\iiint_R x \, dV.$$