Quiz 5 9 July 2024

Answer the questions in the spaces provided. Show all of your work and circle the answer you would like to have graded for each question.

Name:

1. Let *D* be the region bounded by the line y = x - 1 and the parabola $y^2 = 2x + 6$. Sketch *D* in the *xy*-plane and then **setup** an integral to evaluate

$$\iint_D xy \, \mathrm{d}A.$$

2. Find the volume of the solid *S* in the first octant that is bounded by the surface $x^2 + 2y^2 + z = 16$ and planes x = 2 and y = 2.