### Sample 8c



**A solid is bounded in the x and y directions by the region shown above and is bounded below and above in the z direction by the planes z=0 and z=y+1.**

**The density of the solid is given by**

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**Write a MATLAB program to calculate and print the mass of the solid. Use 1e-4 as the accuracy factor. The output of this program should look like this:**

**mass = 7347.054**