

DPGRAPH Assignment #11 - Math 260 – Towers

The purpose of this exercise is to use DPGRAPH to help to set up a double integral used in computing the volume of a solid. The problem is to find the volume of the solid bounded by the surfaces $z = x + y$, $x^2 + y^2 = 4$, and lying in the first octant.

- 1.** Use DPGRAPH to graph these surfaces. Adjust the bounding box so that only the first octant is shown. This will help in visualizing the region of interest.
- 2.** Set up an iterated integral to compute the volume, and then evaluate it. This is pencil and paper work that you turn in with your plot from Step 1.