TUGAS 3 KALKULUS LANJUT

THE INTERSECTION OF 3 CYLINDERS

(Taken from Calculus: Concepts and Contexts by James Stewart)

Use computer program to do the first, third, and fourth case.

- 1. Draw the solid enclosed by the three cylinders $x^2 + y^2 = 1$, $x^2 + z^2 = 1$, and $y^2 + z^2 = 1$. Indicate the positions of the faces with equations of the corresponding cylinders.
- 2. Find the value of the solid in problem 1.
- 3. Draw the edges of the solid.
- 4. What happens to the solid in problem 1 if the radius of the firs cylinder is different from 1? Illustrate with the computer program.