EX 1: Find the volume of the solid bounded by the first octant and the graphs of $x^2 + z^2 = 1$ and $y^2 + z^2 = 1$.

Typing the following into Maple yeilds the graph depicted:

```maple
with(plots);
implicitplot3d({x^2+z^2=1, y^2+z^2=1}, x=0..1,y=0..1,z=0..1);
```
Ex 2: Find the volume of the solid region bounded by the graphs of $y = x$, $y = x^3$, $z = 0$, and $z = x + y + 3$. 