## Class Exercise 4

1. Find the volume of the region in the first octant bounded by the coordinate planes, the plane $y=1-x$ and the surface $z=\cos (\pi x / 2), 0 \leq x \leq 1$.
2. Find

$$
\iiint_{P} d V
$$

where $P$ is the solid whose base is the region between the circles $r=\cos \theta$ and $r=2 \cos \theta$ and whose top lies in the plane $z=3-y$.

