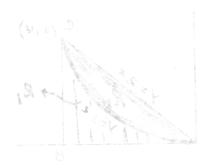
2. Find the volume when the region bounded by $y = \sqrt{x}$, y = 0, and x + y = 2 is revolved about the following axis. Set up two ways.

(a) x axis



(b) line y = 8

(c) line x = -2

3. Find the volume when the area bounded by x + y = 3 and $x = 4 - (y - 1)^2$ is revolved about the y axis. Set up two ways.

4. Find the area when the region bounded by

 $y = \sin x$, $y = \cos x$, y = 1, x = 0 and $x = \frac{\pi}{2}$ is revolved about the line y = 1.