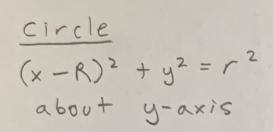
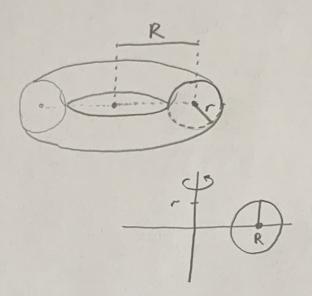
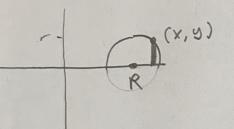
Find volume of torus:



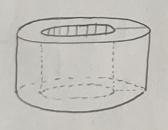


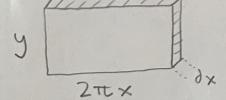
Shells

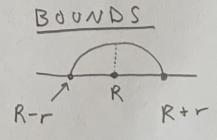


$$(x,y) \quad (x-R)^2 + y^2 = r^2$$

$$y = \sqrt{r^2 - (x-R)^2}$$







of top half of torus

$$V = 2 \int_{\mathbb{R}^{+r}} 2\pi \times \sqrt{r^2 - (x-R)^2} dx$$

$$= 4\pi \int_{\mathbb{R}^{-r}} x \sqrt{r^2 - (x-R)^2} dx$$