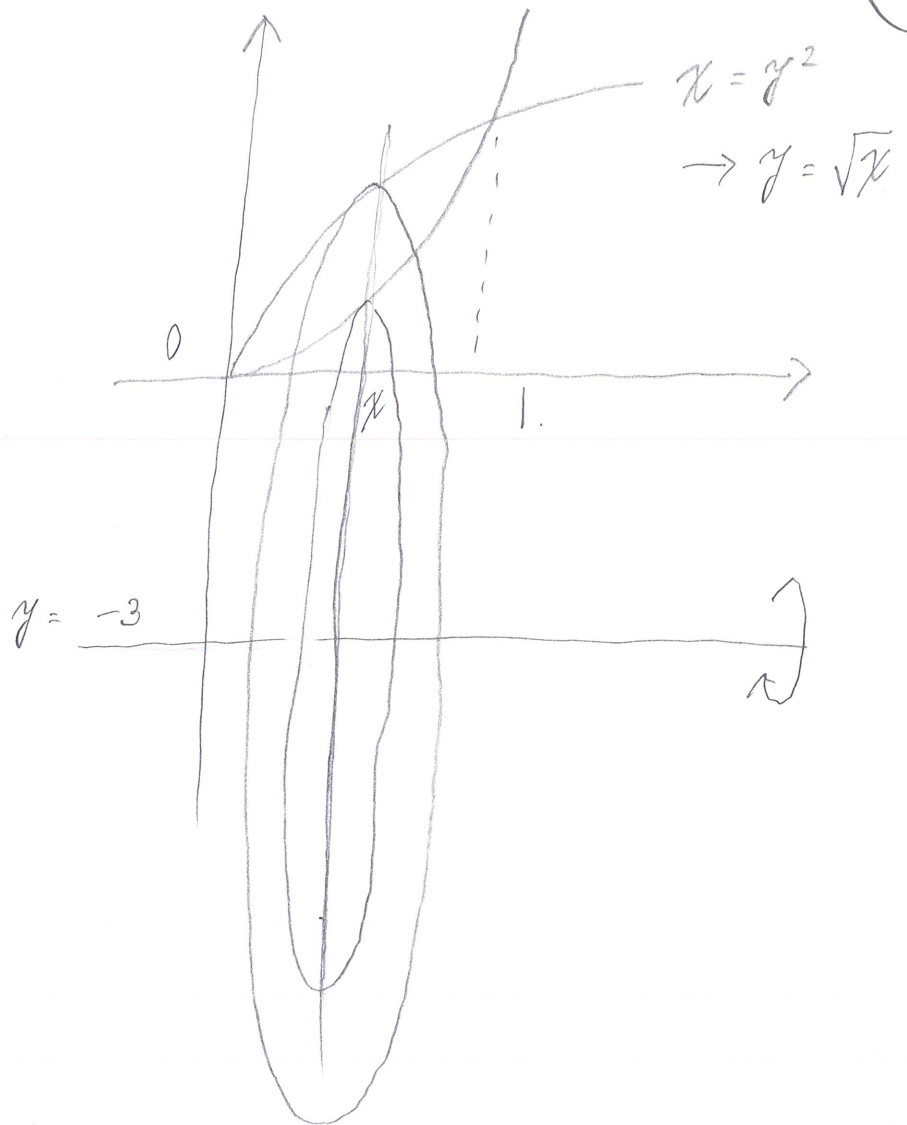


8.1.

$$y = x^2$$

20

(i) Washer



$$V = \int_0^1 (\pi R_{\text{BIG}}^2 - \pi R_{\text{SMALL}}^2) dx$$

~~$$= \int_0^1 \{ \pi (\sqrt{x})^2 - \pi (x^2)^2 \} dx$$~~

$$\int_0^1 \{ \pi (\sqrt{x} + 3)^2 - \pi (x^2 + 3)^2 \} dx$$