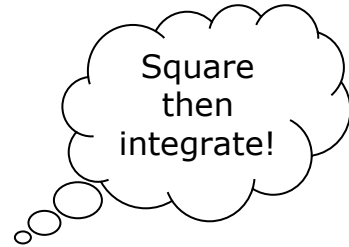


Volume of a Revolution

Volume (about x axis) =

$$\begin{aligned} & \int_a^b \pi y^2 dx \\ &= \int_a^b \pi (f(x))^2 dx \\ &= \pi \int_a^b (f(x))^2 dx \end{aligned}$$



Volume (about y axis) =

$$\int_c^d \pi x^2 dy$$

