

Volume Set-up

	Type I washers	Type II shells
horizontal (x-axis) (y = k)	$\int_a^b \pi (f(x)^2 - g(x)^2) dx$	$\int_c^d 2\pi (k-y)(f(y)-g(y)) dy$
vertical (y-axis) (x = k)	$\int_a^b 2\pi (k-x)(f(x)-g(x)) dx$	$\int_c^d \pi (f(y)^2 - g(y)^2) dy$