Multiple Integration Iteration of Double Integrals

Question

Find the volume of the given solid Below $z = 1 - x^2$ and over the region $0 \le x \le 1, 0 \le y \le x$. Answer

$$V = \int_0^1 dx \int_0^x (1 - x^2) dy$$

= $\int_0^1 (1 - x^2) x dx$
= $\frac{1}{2} - \frac{1}{4} = \frac{1}{4}$ cu. units