



$$V = \int dV = \int_{R/2}^R \pi (R^2 - x^2) dx = \pi \left[ R^2 x - \frac{x^3}{3} \right]_{R/2}^R$$

$$= \pi \left[ R^3 - \frac{R^3}{3} - \left( \frac{R^3}{2} - \frac{R^3}{24} \right) \right] = \frac{5}{24} \pi R^3$$

$$\int x_c dV = \int_{R/2}^R x \pi (R^2 - x^2) dx = \pi \left[ \frac{R^2 x^2}{2} - \frac{x^4}{4} \right]_{R/2}^R$$

$$= \pi \left[ \frac{R^4}{2} - \frac{R^4}{4} - \left( \frac{R^4}{8} - \frac{R^4}{64} \right) \right] = \frac{9}{64} \pi R^4$$

$$\bar{x} = \frac{\int x_c dV}{\int dV} = \frac{\frac{9}{64} \pi R^4}{\frac{5}{24} \pi R^3} = \frac{27}{40} R$$

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