

WEBASSIGN MEASUREMENT

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A.

$$9.27 \times 10^{-26} kg \times \frac{1000g}{kg} \times \frac{cm^3}{7.87g} \times \frac{m^3}{100^3 cm^3} \times \frac{\pi}{\sqrt{18}} \approx 8.72 \times 10^{-30} m^3$$

B.

$$V = \frac{4}{3}\pi r^3$$

$$r^3 = \frac{V}{\frac{4}{3}\pi}$$

$$r^3 = \frac{3V}{4\pi}$$

$$r = \sqrt[3]{\frac{3V}{4\pi}}$$

$$r \approx \sqrt[3]{\frac{3 \times 8.72 \times 10^{-30} m^3}{4\pi}}$$

$$r \approx 1.28 \times 10^{-10} m$$

$$2r \approx 2.55 \times 10^{-10} m$$