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$$(a) \frac{4\pi r^2 \cdot r}{8\pi r^3} = \frac{\cancel{4\pi} r^3}{2 \cdot \cancel{4\pi} r^3} = \frac{1}{2} \quad (\underline{\underline{\text{Svar}}})$$

$$(b) \frac{\frac{1}{2} a^2 b}{\frac{1}{3} ab \cdot a} = \frac{\frac{1 \cdot a^2 \cdot b}{2}}{\frac{1 \cdot ab \cdot a}{3}} = \frac{\frac{a^2 b}{2}}{\frac{a^2 b}{3}} = \frac{\cancel{a^2 b} \cdot 3}{2 \cdot \cancel{a^2 b}} = \frac{3}{2} \quad (\underline{\underline{\text{Svar}}})$$