

4. (a) $\frac{107}{3}\pi$ cubic units

(b) $\frac{64}{3}\pi$ cubic units

6. (a) $\frac{1}{3}$ (b) $\frac{1}{2}$ (c) $\frac{2}{3}$

7. (a) about 94.5 cubic feet

(b) about 127 cubic feet