

Pg 344-345 #5-17 Odd, 18 (Skip 15)

5. $9\pi \approx 28.3 \text{ m}^3$

6. $\frac{250\pi}{3} \approx 261.8 \text{ mm}^3$

7. $\frac{2\pi}{3} \approx 2.1 \text{ ft}^3$

8. $\frac{200\pi}{3} \approx 209.4 \text{ cm}^3$

9. $\frac{147\pi}{4} \approx 115.5 \text{ yd}^3$

10. $\frac{112\pi}{3} \approx 117.3 \text{ ft}^3$

11. $\frac{125\pi}{6} \approx 65.4 \text{ in.}^3$

12. $\frac{32\pi}{3} \approx 33.5 \text{ cm}^3$

13. The diameter was used instead of the radius;

$$V = \frac{1}{3}(\pi)(1)^2(3) = \pi \text{ m}^3$$

14. Glass A; $\frac{38\pi}{3} \approx 39.8 \text{ cm}^3$

15. 1.5 ft

16. $\frac{27}{\pi} \approx 8.6 \text{ cm}$

17. $2\sqrt{\frac{10.8}{4.2\pi}} \approx 1.8 \text{ in.}$

18. $60\pi \text{ m}^3$