

Try This 1 Possible Solutions

TT 1. *Foundations and Pre-calculus Mathematics 10* (Pearson), questions 6 and 18.c) on pages 42 and 43

6. a) $V = \pi r^2 h$

$$V = \pi (5 \text{ cm})^2 (20 \text{ cm})$$

$$V = 1571 \text{ cm}^3$$

b) $V = \pi r^2 h$

$$V = \pi \left(\frac{16 \text{ m}}{2} \right)^2 (4 \text{ m})$$

$$V = 804 \text{ m}^3$$

18. c) $V = \pi r^2 h$

$$219.0 \text{ m}^3 = \pi r^2 (6.4 \text{ m})$$

$$\frac{219.0 \text{ m}^3}{6.4 \pi \text{ m}} = \frac{\pi r^2 (6.4 \text{ m})}{6.4 \pi \text{ m}}$$

$$10.89 \text{ m}^2 = r^2$$

$$\sqrt{10.89 \text{ m}^2} = \sqrt{r^2}$$

$$r = 3.3 \text{ m}$$