

Answer Key for 12-3 and 12-4 Worksheet

1) $h = 8 \text{ in}$ $LA = 60\pi \text{ in}^2$ $TA = 96\pi \text{ in}^2$ $V = 301.59 \text{ in}^3$

2) $h = 12 \text{ ft}$ $r = 13 \text{ ft}$ $LA = 65\pi \text{ ft}^2$ $TA = 90\pi \text{ ft}^2$

3) B, they are the same LA

4) $r = 4 \text{ in}$ $h = 6.93 \text{ in}$ $TA = 48\pi \text{ in}^2$ $V = 36.96\pi \text{ in}^3$

5) $TA = 324\pi \text{ ft}^2$ $V = 972\pi \text{ ft}^3$

6) $r = 7.07 \text{ cm}$ $V = 471.19\pi \text{ cm}^3$

7) $r = 6 \text{ in}$ $TA = 144\pi \text{ in}^2$ 8) 395.84 m^3