

$$\text{Volume cylinder} = \pi r^2 h$$

$$V = 1800 \text{ cu. ft}$$

$$S.A. = 2\pi r^2 + 2\pi r h$$

$$\frac{V}{\pi r^2} = \frac{\pi r^2 h}{\pi r^2}$$

$$h = \frac{V}{\pi r^2}$$