

3.32 Right Circular Cone

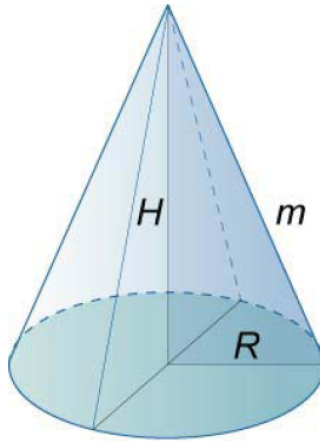
Radius of base: R Diameter of base: d Height: H Slant height: m Lateral surface area: S_L Area of base: S_B Total surface area: S Volume: V 

Figure 49.

$$328. \quad H = \sqrt{m^2 - R^2}$$

$$329. \quad S_L = \pi R m = \frac{\pi m d}{2}$$

$$330. \quad S_B = \pi R^2$$

$$331. \quad S = S_L + S_B = \pi R(m + R) = \frac{1}{2} \pi d \left(m + \frac{d}{2} \right)$$

$$332. \quad V = \frac{1}{3} S_B H = \frac{1}{3} \pi R^2 H$$