3.30 Right Circular Cylinder

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

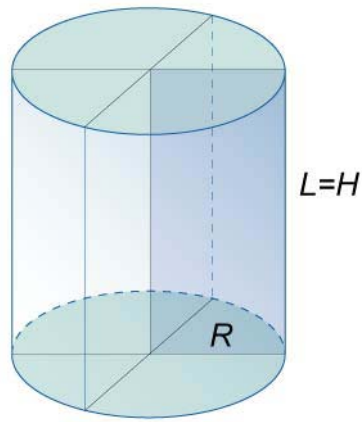

Figure 47.

321. $S_L = 2\pi RH$

322. $S = S_L + 2S_B = 2\pi R(H+R) = \pi d\left(H + \frac{d}{2}\right)$

323. $V = S_B H = \pi R^2 H$