

### 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:  $V$

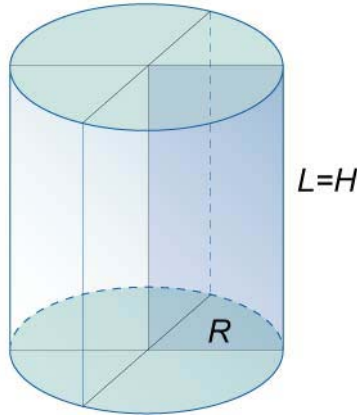


Figure 47.

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

