

### 3.36 Spherical Sector

Radius of sphere:  $R$   
Radius of base of spherical cap:  $r$   
Height:  $h$   
Total surface area:  $S$   
Volume:  $V$

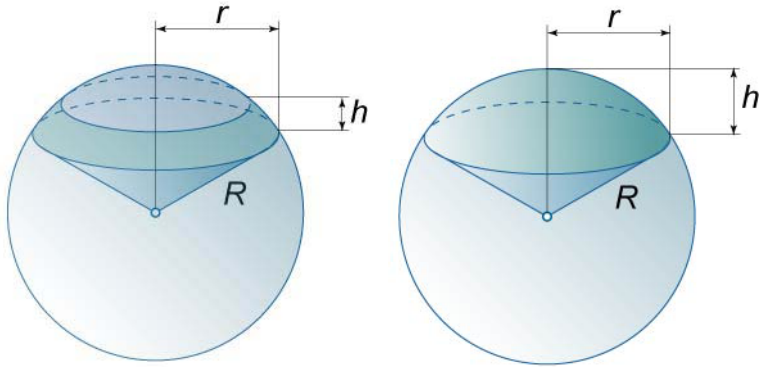


Figure 53.

347.  $S = \pi R(2h + r)$

348.  $V = \frac{2}{3}\pi R^2 h$

Note: The given formulas are correct both for “open” and “closed” spherical sector.

