

3.36 Spherical Sector

Radius of sphere: R

Radius of base of spherical cap: r

Height: h

Total surface area: S

Volume: V

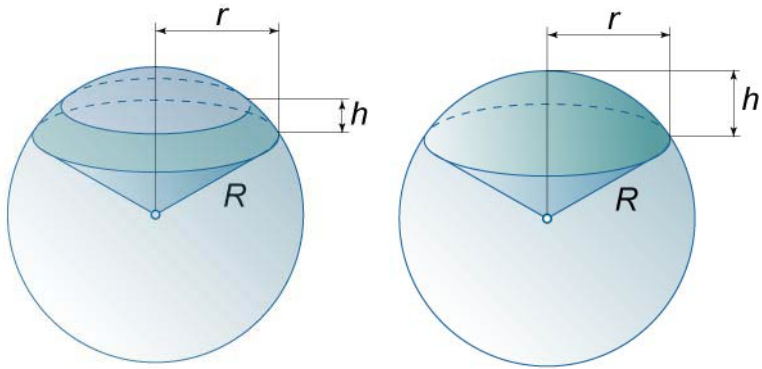


Figure 53.

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.