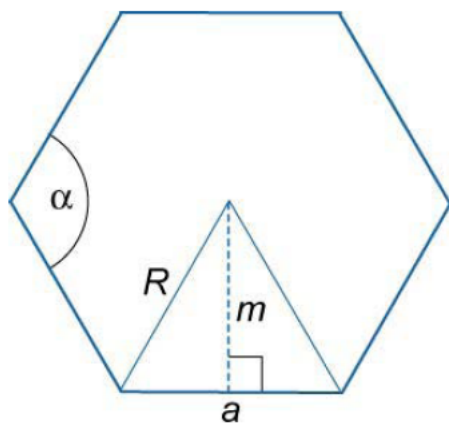# 3.17 Regular Hexagon

Side: a
Internal angle: α
Slant height: m
Radius of inscribed circle: r
Radius of circumscribed circle: R
Perimeter: L
Semiperimeter: p
Area: S

Figure 28.

249. $\alpha = 120°$

250. $r = m = \dfrac{a\sqrt{3}}{2}$

251. $R = a$

252. $L = 6a$

253. $S = pr = \dfrac{a^2 3\sqrt{3}}{2}$,

where $p = \dfrac{L}{2}$.