

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

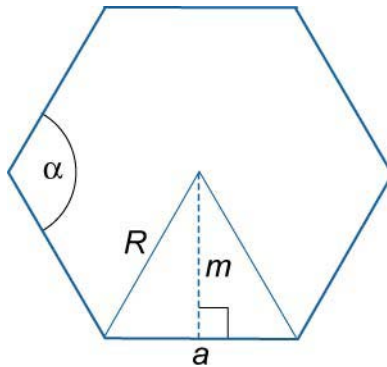


Figure 28.

249. $\alpha = 120^\circ$

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

251. $R = a$

252. $L = 6a$

253. $S = pr = \frac{a^2 3\sqrt{3}}{2},$
where $p = \frac{L}{2}.$