

3.3 Equilateral Triangle

Side of a equilateral triangle: a

Altitude: h

Radius of circumscribed circle: R

Radius of inscribed circle: r

Perimeter: L

Area: S

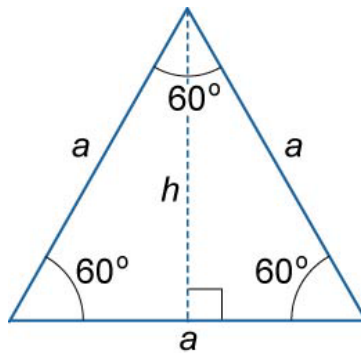


Figure 12.

176. $h = \frac{a\sqrt{3}}{2}$

177. $R = \frac{2}{3}h = \frac{a\sqrt{3}}{3}$

178. $r = \frac{1}{3}h = \frac{a\sqrt{3}}{6} = \frac{R}{2}$

179. $L = 3a$

180. $S = \frac{ah}{2} = \frac{a^2\sqrt{3}}{4}$