

### 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:  $S$

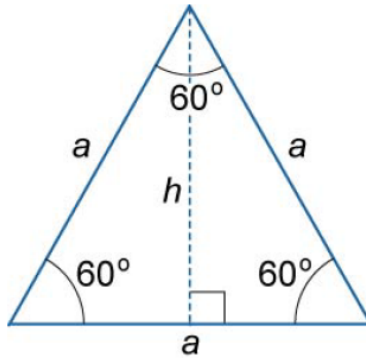


Figure 12.

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

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

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

$$179. \quad L = 3a$$

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