

3.2 Isosceles Triangle

Base: a

Legs: b

Base angle: β

Vertex angle: α

Altitude to the base: h

Perimeter: L

Area: S

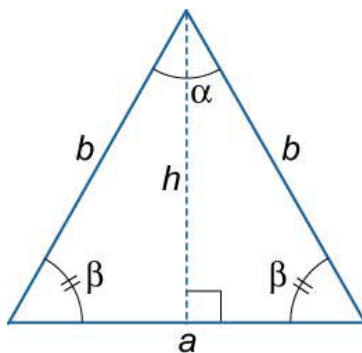


Figure 11.

172. $\beta = 90^\circ - \frac{\alpha}{2}$

173. $h^2 = b^2 - \frac{a^2}{4}$

174. $L = a + 2b$

175. $S = \frac{ah}{2} = \frac{b^2}{2} \sin \alpha$