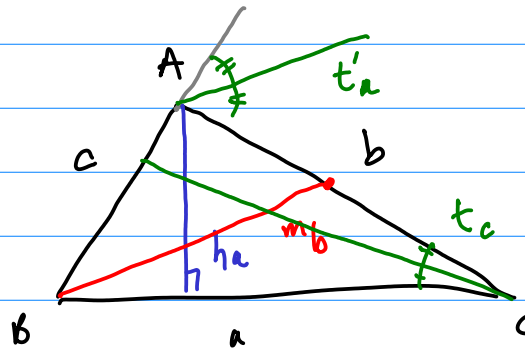


M621

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§1.5 - Constructions of Triangles

Notation



$$s = \frac{1}{2}(a+b+c) \quad \text{semi-perimeter}$$

Heron's Area:

$$A = \sqrt{s(s-a)(s-b)(s-c)}$$

$$p = 2s = a+b+c$$

Ex.

h_a

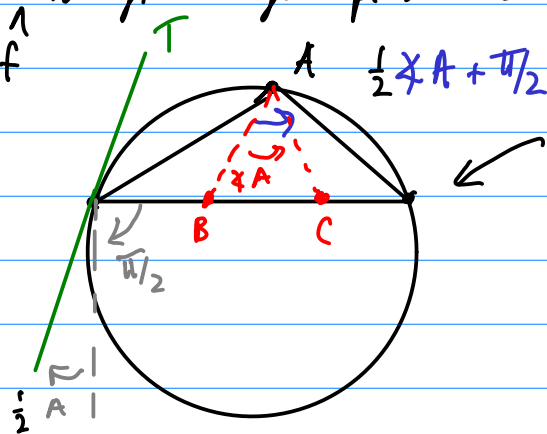
m_a

a

- On chalkboard

Thm. 1.5.1 Given the perimeter and an angle, the locus of all possible vertices of this angle lies on the circle in which a chord equal in length to the perimeter subtends an angle of the given angle plus $\pi/2$.

half



length is $p = a+b+c$

Ex. 3 1.5.1 a, b, c

$$\begin{array}{r} a \\ \hline b \\ \hline c \\ \hline \end{array}$$