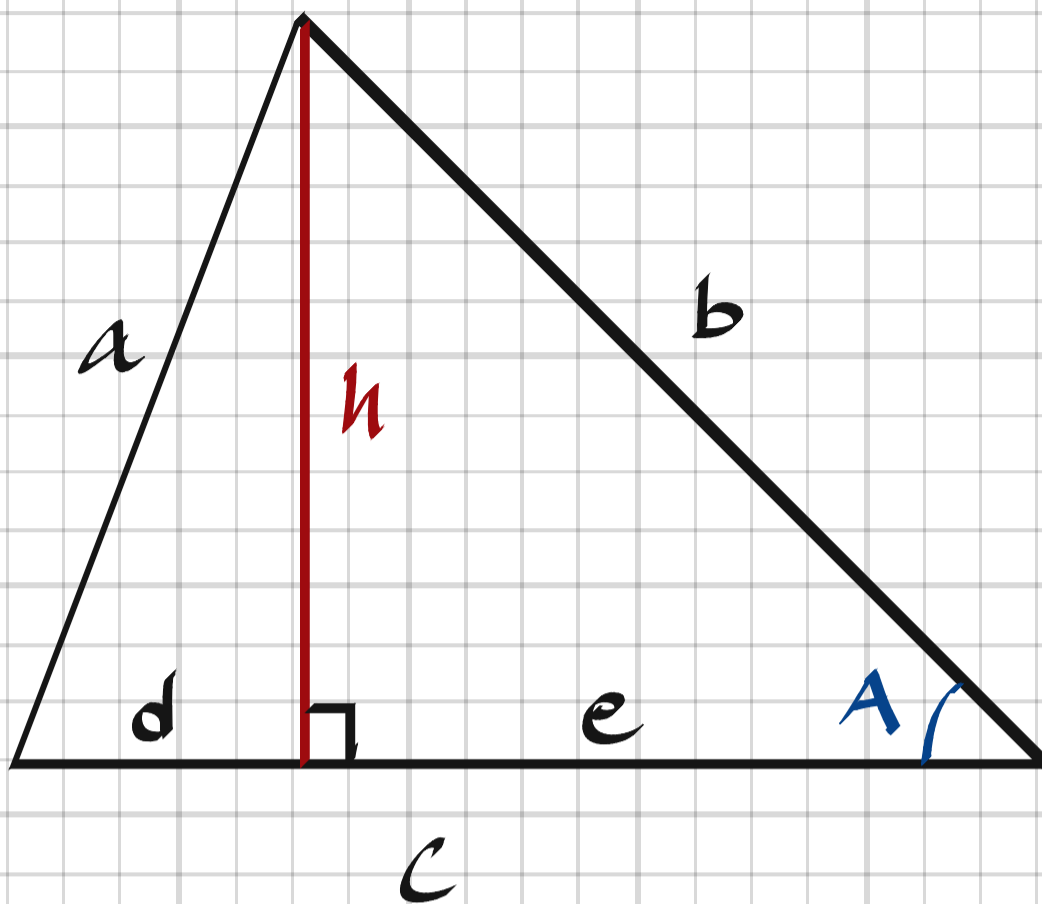


# Cosinussatz



$$\begin{cases} h^2 = a^2 - d^2 \\ h^2 = b^2 - e^2 \\ d = c - e \\ e = b \cdot \cos A \end{cases} \Rightarrow$$

$$a^2 - (c - b \cdot \cos A)^2 = b^2 - (b \cdot \cos A)^2$$

$$a^2 - c^2 + 2bc \cos A - b^2 \cos^2 A = b^2 - b^2 \cos^2 A \Rightarrow$$

$$a^2 = b^2 + c^2 - 2bc \cdot \cos A$$