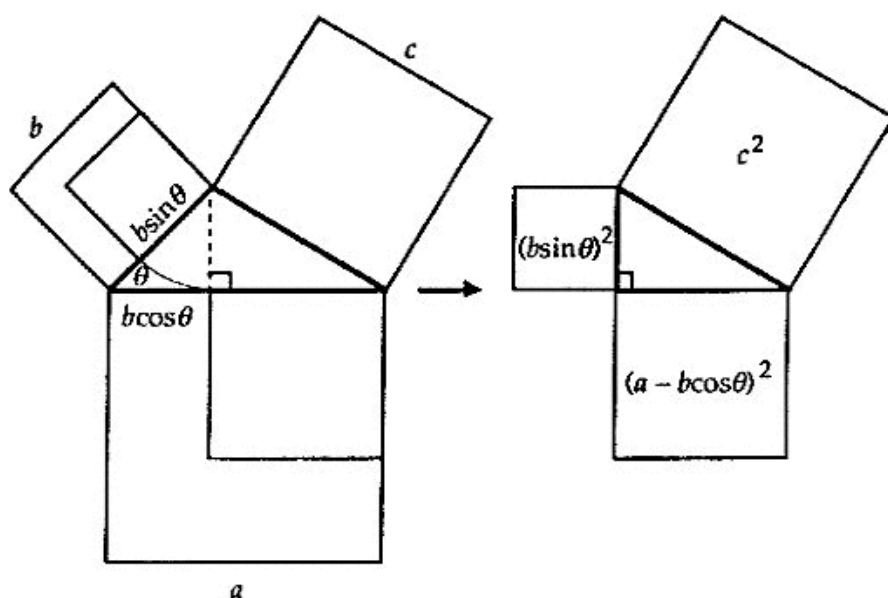


The Law of Cosines I



$$\begin{aligned}c^2 &= (b \sin \theta)^2 + (a - b \cos \theta)^2 \\ &= a^2 + b^2 - 2ab \cos \theta\end{aligned}$$

—Timothy A. Sipka