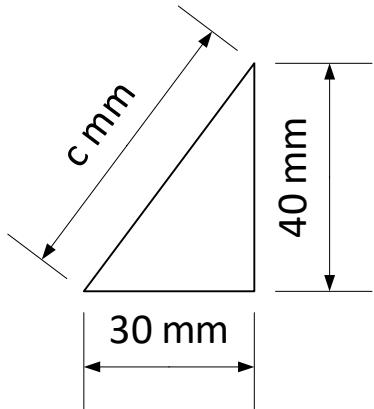


Pythagoras Theorem

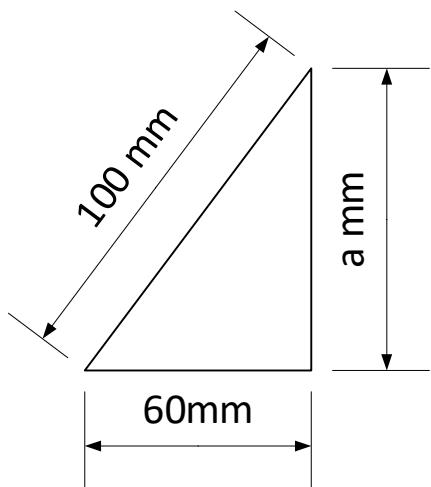
Example 1



By Pythagoras' Theorem,

$$\begin{aligned}c^2 &= a^2 + b^2 \\&= 30^2 + 40^2 \\&= 900 + 1600 \\&= 2500 \\\therefore c &= \sqrt{2500} \\&= 50\text{mm}\end{aligned}$$

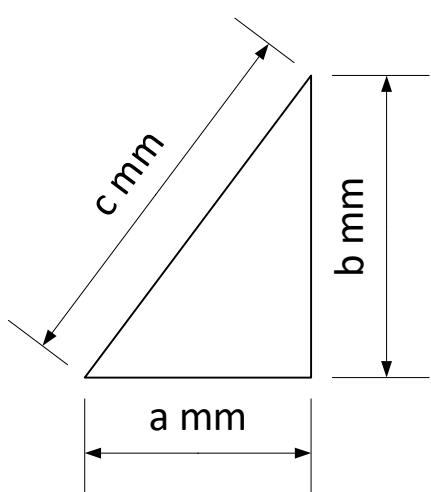
Example 2



$$\begin{aligned}\text{By Pythagoras' Theorem, } c^2 &= a^2 + b^2 \\\therefore a^2 &= c^2 - b^2 \\&= 100^2 - 60^2 \\&= 10000 - 3600 \\&= 6400 \\\therefore a &= \sqrt{6400} \\&= 80\text{mm}\end{aligned}$$

Pythagoras Theorem

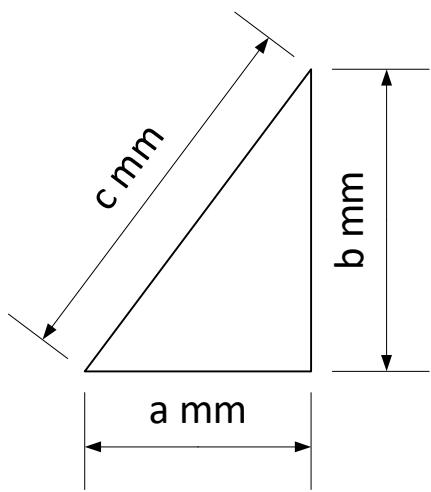
Example 1



By Pythagoras' Theorem,

$$\begin{aligned}c^2 &= \underline{\quad}^2 + \underline{\quad}^2 \\&= \underline{\quad}^2 + \underline{\quad}^2 \\&= \underline{\quad} + \underline{\quad} \\&= \underline{\quad} \\\therefore c &= \sqrt{\underline{\quad}} \\&= \underline{\quad} mm\end{aligned}$$

Example 2



By Pythagoras' Theorem, $c^2 = a^2 + b^2$

$$\begin{aligned}\therefore a^2 &= c^2 - b^2 \\&= \underline{\quad}^2 - \underline{\quad}^2 \\&= \underline{\quad} - \underline{\quad} \\&= \underline{\quad} \\\therefore a &= \sqrt{\underline{\quad}} \\&= \underline{\quad} mm\end{aligned}$$