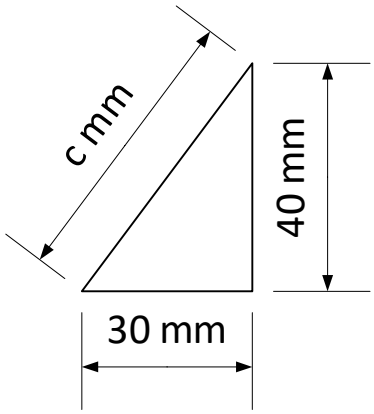
Pythagoras Theorem

Example 1



By Pythagoras' Theorem,

$$c^2 = a^2 + b^2$$

$$= 30^2 + 40^2$$

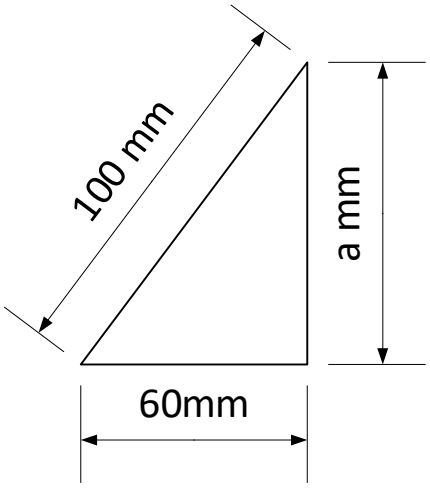
$$= 900 + 1600$$

$$= 2500$$

$$\therefore c = \sqrt{2500}$$

$$= 50mm$$

Example 2



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

$$\therefore a^2 = c^2 - a^2$$

$$= 100^2 - 60^2$$

$$= 10000 - 3600$$

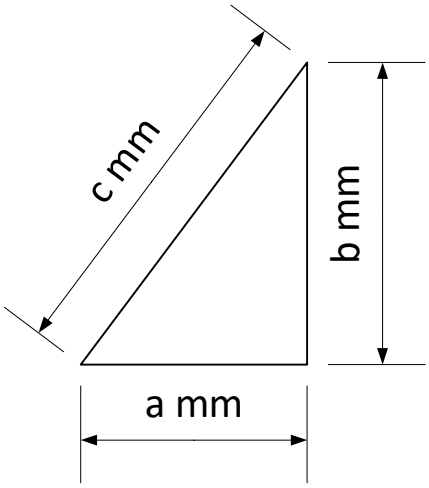
$$= 6400$$

$$\therefore a = \sqrt{6400}$$

$$= 80mm$$

Pythagoras Theorem

Example 1



By Pythagoras' Theorem,

$c^2 = ___^2 + ___^2$

$= ___^2 + ___^2$

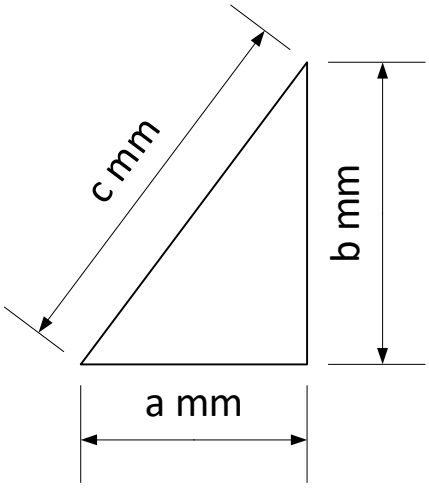
$= ____ + ____$

$= _____$

$\therefore c = \sqrt{_____}$

$= _____mm$

Example 2



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

$\therefore \; a^2 = c^2 - a^2$

$= _____^2 - _____^2$

$= _____ - _____$

$= _____$

$\therefore a = \sqrt{_____}$

$= _____mm$