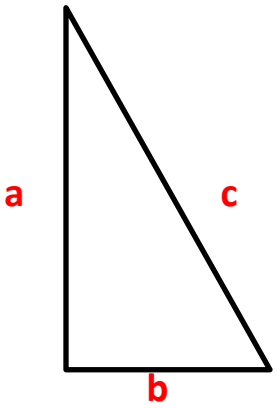
Pythagore

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

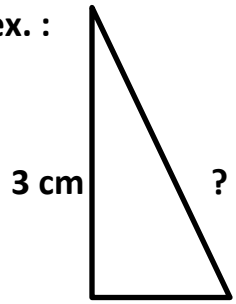
a et b = cathètes

c = hypoténuse

(côté le plus long)



ex. :



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

$3^2 + 4^2 = c^2$

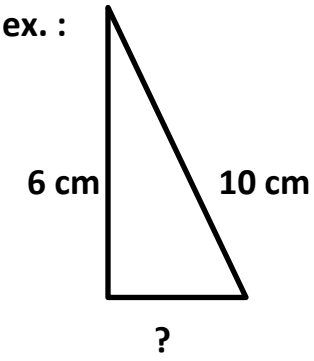
$9 + 16 = c^2$

$25 = c^2$

$\sqrt{25} = c$

$5 = c$ rép. : 5 cm

ex. :



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

$6^2 + b^2 = 10^2$

$36 + b^2 = 10^2$

$36 + b^2 = 100$

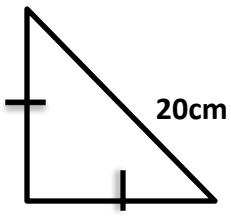
$b^2 = 100 - 36$

$b^2 = 64$

$b = \sqrt{64}$

$b = 8$ rép. : 8 cm

ex. :



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

$2a^2 = 20^2$

$2a^2 = 400$

$a^2 = 400 \div 2$

$a^2 = 200$

$a = \sqrt{200}$

$a = 14{,}14$ rép. : 14,14 cm

Angle 30° : Le côté opposé (en face) à l'angle de 30° = ½ hypoténuse

*** La somme des angles d'un triangle = 180° ***