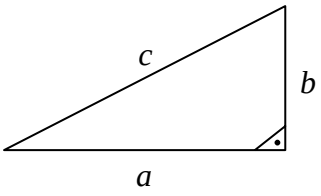
SERIE 44 – Géométrie

Théorème de Pythagore

calculatrice autorisée

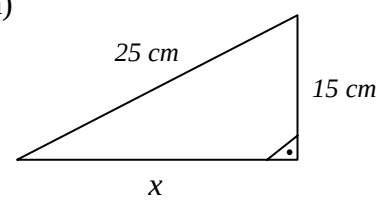
Théorème :
Soit le **triangle rectangle** ci-contre :



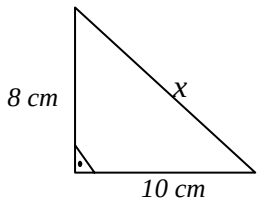
- ***a*** et ***b*** sont les **cathètes**
- ***c*** est **l'hypoténuse**
- On a la relation suivante, appelée le **théorème de Pythagore** : $a^2 + b^2 = c^2$

Exercice :
Calculer la longueur inconnue des triangles représentés sur les croquis ci-dessous :

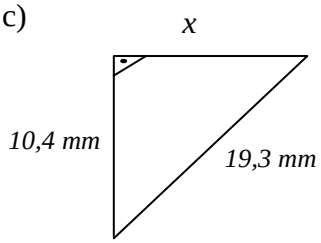
a)



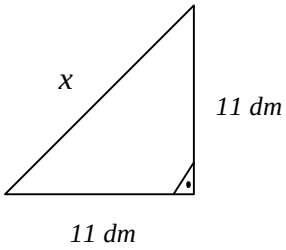
b)



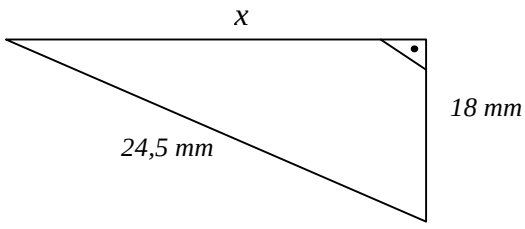
c)



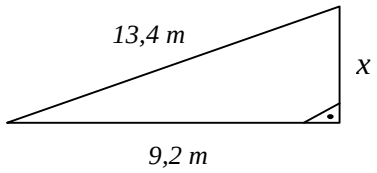
d)



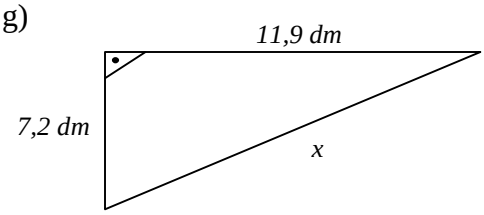
e)



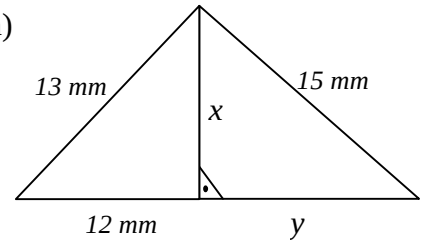
f)



g)



h)



<u>Solutions</u> :

a) $x = 20\,cm$ *c)* $x = 16,26\,mm$ *e)* $x = 16,62\,mm$ *g)* $x = 13,91\,dm$

b) $x = 12,81\,cm$ *d)* $x = 15,56\,dm$ *f)* $x = 9,74\,m$ *h)* $x = 5\,mm$; $y = 14,14\,mm$