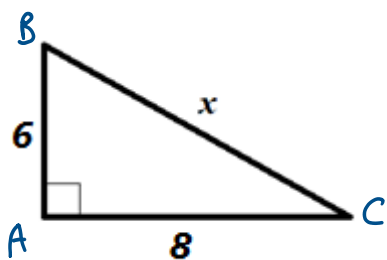


Exercice 1 :

Calculer la longueur x

Rectangle en A : d'après Pythagore :

$$x^2 = 6^2 + 8^2$$

$$x^2 = 36 + 64$$

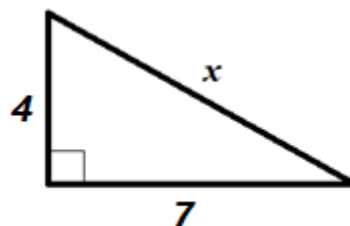
$$x^2 = 100$$

$$x = \sqrt{100}$$

$$x = 10$$

Exercice 3 :

Calculer la longueur x



$$x^2 = 4^2 + 7^2$$

$$x^2 = 16 + 49$$

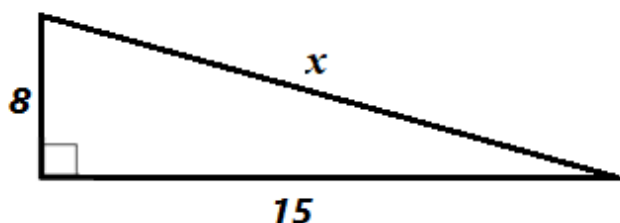
$$x^2 = 65$$

$$x = \sqrt{65}$$

$$x \approx 8,06$$

Exercice 2 :

Calculer la longueur x



$$x^2 = 8^2 + 15^2$$

$$x^2 = 64 + 225$$

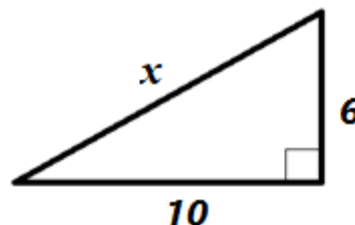
$$x^2 = 289$$

$$x = \sqrt{289}$$

$$x = 17$$

Exercice 4 :

Calculer la longueur x



$$x^2 = 10^2 + 6^2$$

$$x^2 = 100 + 36$$

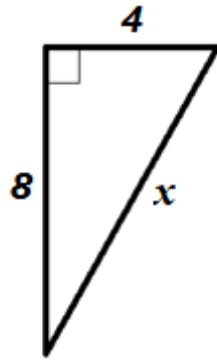
$$x^2 = 136$$

$$x = \sqrt{136}$$

$$x \approx 11,66$$

Exercice 5 :

Calculer la longueur x



$$x^2 = 8^2 + 4^2$$

$$x^2 = 64 + 16$$

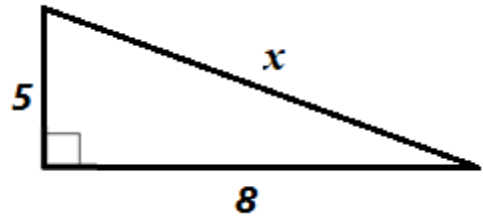
$$x^2 = 80$$

$$x = \sqrt{80}$$

$$x \approx 8,94$$

Exercice 7 :

Calculer la longueur x



$$x^2 = 5^2 + 8^2$$

$$x^2 = 25 + 64$$

$$x^2 = 89$$

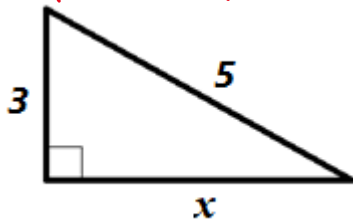
$$x = \sqrt{89}$$

$$x \approx 9,43$$

Exercice 6 :

Calculer la longueur x

Attention : x n'est pas l'hypoténuse



$$x^2 + 3^2 = 5^2$$

$$x^2 + 9 = 25$$

$$x^2 = 25 - 9$$

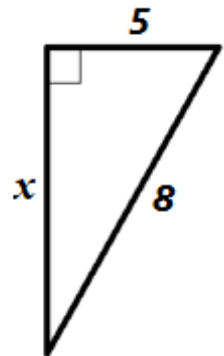
$$x^2 = 16$$

$$x = \sqrt{16}$$

$$x = 4$$

Exercice 8 :

Calculer la longueur x



$$x^2 + 5^2 = 8^2$$

$$x^2 + 25 = 64$$

$$x^2 = 64 - 25$$

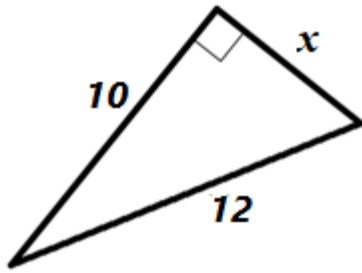
$$x^2 = 39$$

$$x = \sqrt{39}$$

$$x \approx 6,24$$

Exercice 9 :

Calculer la longueur x



$$x^2 + 10^2 = 12^2$$

$$x^2 + 100 = 144$$

$$\quad - 100 \quad - 100$$

$$x^2 = 144 - 100$$

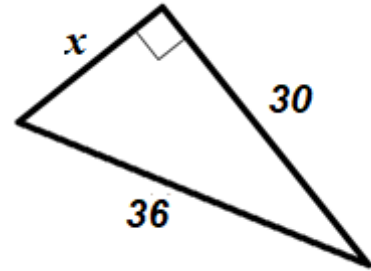
$$x^2 = 44$$

$$x = \sqrt{44}$$

$$x \approx 6,63$$

Exercice 11 :

Calculer la longueur x



$$x^2 + 30^2 = 36^2$$

$$x^2 + 900 = 1296$$

$$\quad - 900 \quad - 900$$

$$x^2 = 1296 - 900$$

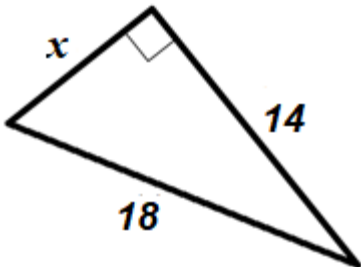
$$x^2 = 396$$

$$x = \sqrt{396}$$

$$x \approx 19,9$$

Exercice 10 :

Calculer la longueur x



$$x^2 + 14^2 = 18^2$$

$$x^2 + 196 = 324$$

$$\quad - 196 \quad - 196$$

$$x^2 = 324 - 196$$

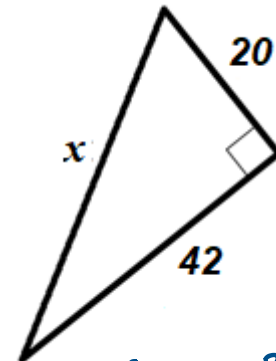
$$x^2 = 128$$

$$x = \sqrt{128}$$

$$x \approx 11,31$$

Exercice 12 :

Calculer la longueur x



$$x^2 = 20^2 + 42^2$$

$$x^2 = 400 + 1764$$

$$x^2 = 2164$$

$$x = \sqrt{2164}$$

$$x \approx 46,52$$