

Exercice 1 :

Calculer la longueur x

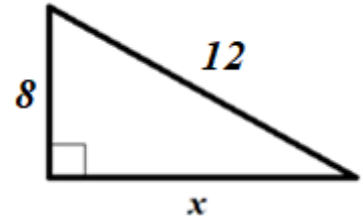
$$x^2 + 8^2 = 12^2$$

$$x^2 + 64 = 144$$

$$x^2 = 144 - 64$$

$$x^2 = 80$$

$$x = \sqrt{80} \approx 8,94$$



Exercice 2 :

Calculer la longueur x

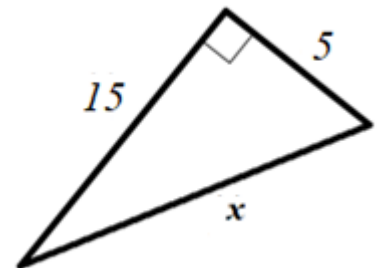
$$x^2 = 5^2 + 15^2$$

$$x^2 = 25 + 225$$

$$x^2 = 250$$

$$x = \sqrt{250}$$

$$x \approx 15,81$$



Exercice 3

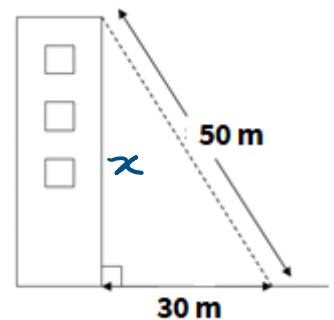
Calculer la hauteur de l'immeuble :

$$x^2 + 30^2 = 50^2$$

$$x^2 + 900 = 2500$$

$$x^2 = 1600$$

$$x = \sqrt{1600} = 40 \text{ m}$$



Exercice 4

Calculer la longueur de l'hypoténuse de la grand voile ?

$$x^2 = 4^2 + 16^2$$

$$x^2 = 16 + 256 = 272$$

$$x = \sqrt{272}$$

$$x \approx 16,49$$

