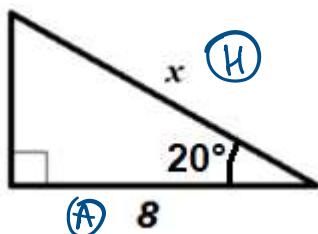


Exercices – Trigonométrie 1

(arrondir si nécessaire à 0,01 près)

Exercice 1 :

Calculer la longueur x



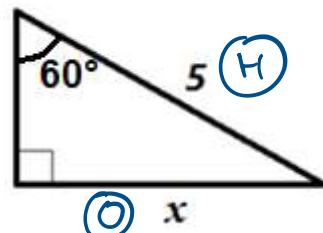
CAH

$$\frac{\cos 20^\circ}{1} = \frac{8}{x}$$

$$x = \frac{8 \times 1}{\cos 20^\circ} \approx 8,51$$

Exercice 2 :

Calculer la longueur x



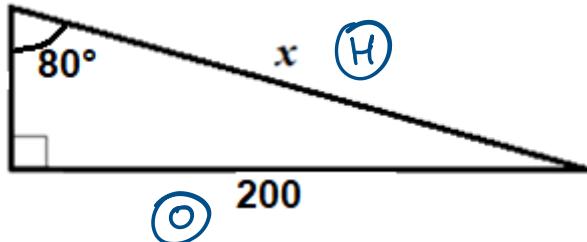
SOH

$$\frac{\sin 60^\circ}{1} = \frac{x}{5}$$

$$x = 5 \times \sin 60^\circ \approx 4,33$$

Exercice 3 :

Calculer la longueur x



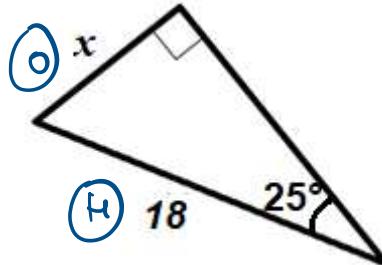
SOH

$$\frac{\sin 80^\circ}{1} = \frac{200}{x}$$

$$x = \frac{1 \times 200}{\sin 80^\circ} \approx 203,09$$

Exercice 4 :

Calculer la longueur x



SOH

$$\frac{\sin 25^\circ}{1} = \frac{x}{18}$$

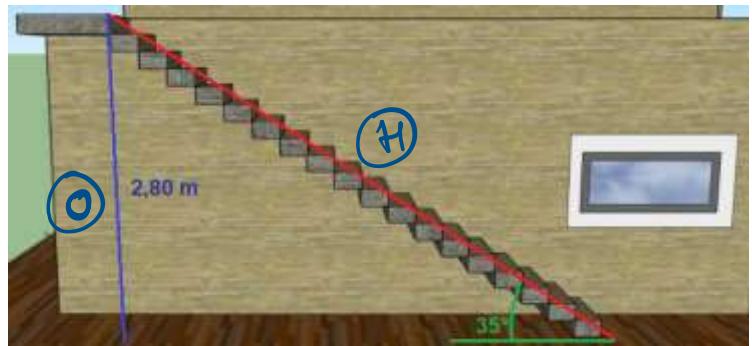
$$x = 18 \times \sin 25^\circ \approx 7,61$$

exercice 5 :

Calculer la longueur en rouge de cet escalier

SOH

$$\frac{\sin 35^\circ}{1} = \frac{2,80}{x}$$



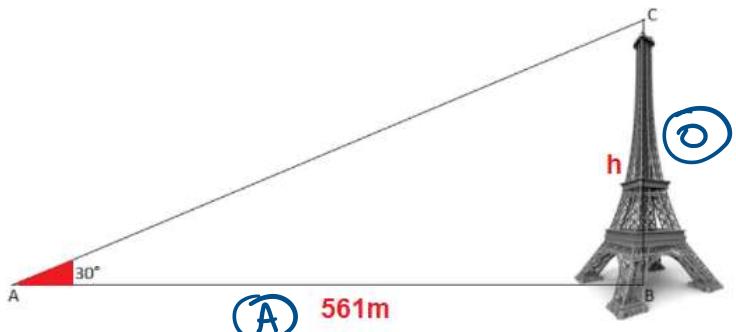
$$x = \frac{1 \times 2,80}{\sin 35^\circ} \approx 6,88 \text{ m}$$

exercice 6 :

Calculer la hauteur de la tour Eiffel

TOA

$$\frac{\tan 30^\circ}{1} = \frac{h}{561}$$



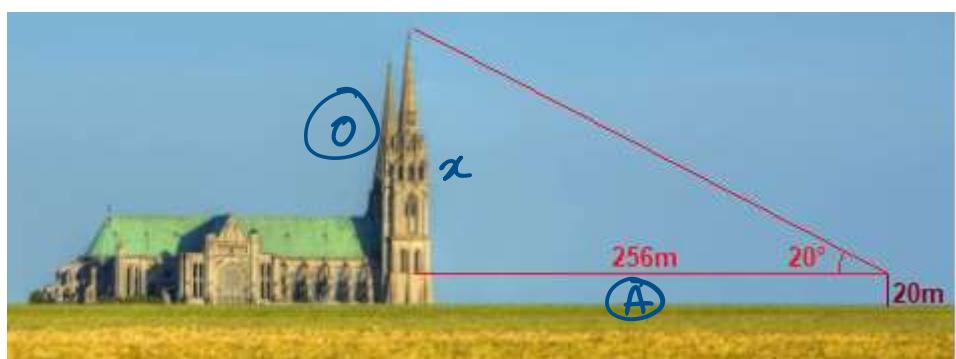
$$h = 561 \times \tan 30^\circ \approx 321 \text{ m}$$

exercice 7 :

Calculer la hauteur de la cathédrale de Chartres

TOA

$$\frac{\tan 20^\circ}{1} = \frac{x}{256}$$



$$x = 256 \times \tan 20^\circ \approx 93 \text{ m}$$

$$\text{donc } h = 93 + 20 = 113 \text{ m}$$