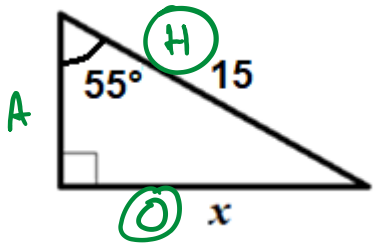
Devoir 10 – Trigonométrie Note /10 **Nom** ..... correction .....

(arrondir si nécessaire à 0,1 près)

Exercice 1 :

Calculer la longueur x



SOH

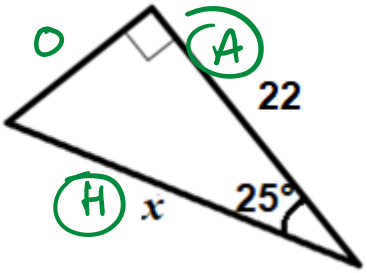
$\sin 55° = \frac{x}{15}$

$x = \frac{15 \times \sin 55}{1} \simeq 12,3$

2,5

Exercice 2 :

Calculer la longueur x



CAH

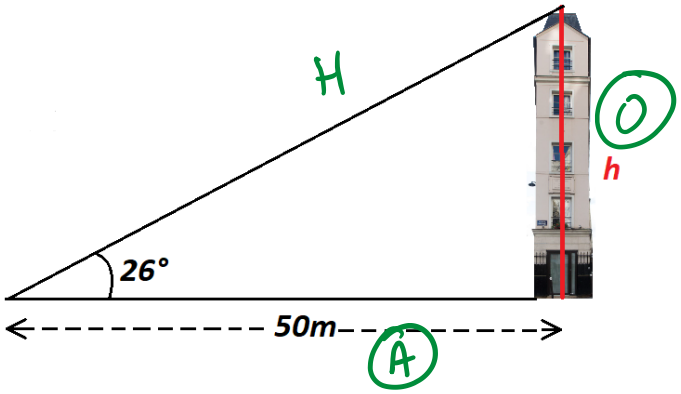
$\cos 25° = \frac{22}{x}$

$x = \frac{22 \times 1}{\cos 25} \simeq 24,3$

2,5

Exercice 3 :

Calculer la hauteur h de l'immeuble



TOA

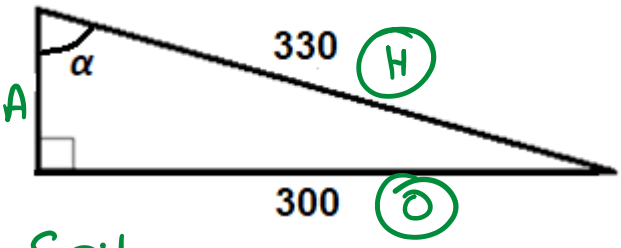
$\tan 26° = \frac{h}{50}$

$h = 50 \times \tan 26° \simeq 24,4$

2,5

Exercice 4 :

Calculer l'angle α



SOH

$\sin \alpha = \frac{300}{330}$

$\alpha = \arcsin\left(\frac{300}{330}\right)$

$\alpha \simeq 65,4°$

2,5