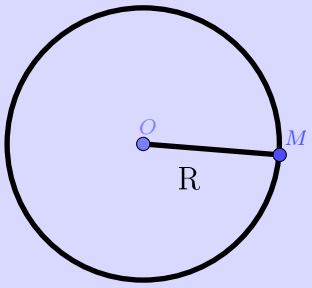
Configuration géométrique

1 Distance

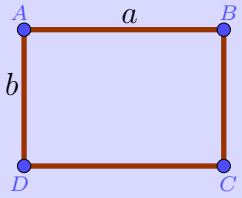
Propriété 1 :

Périmètre d'un cercle de rayon R :



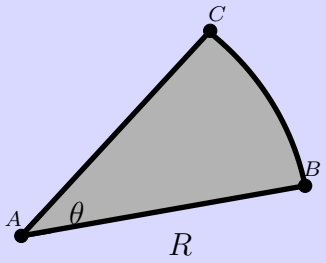
On a $p =$ .....

Périmètre d'un rectangle :



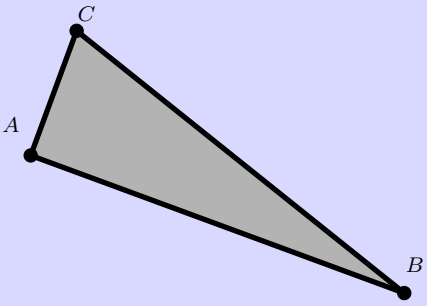
On a $p =$ .....

Longueur d'un arc de cercle :



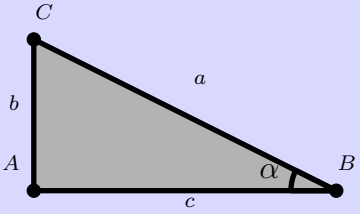
La longueur de l'arc est : $l =$ .....

Théorème de Pythagore : Dans un triangle rectangle ABC rectangle en A



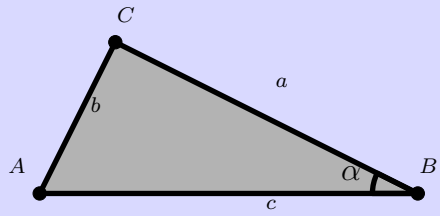
On a $BC^2 =$ .....

Ligne trigonométrique : Dans un triangle rectangle ABC rectangle en A, on note α l'angle $\widehat{ABC}$, $a = BC$, $b = AC$ et $c = AB$.



- $\sin(\alpha) =$ .....
- $\cos(\alpha) =$ .....
- $\tan(\alpha) =$ .....

Théorème d'Al-Kashi : Dans un triangle quelconque ABC , on note α l'angle $\widehat{ABC}$, $a = BC$, $b = AC$ et $c = AB$.

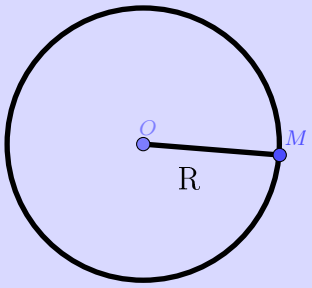


On a : $b^2 =$ .....

2 Aire

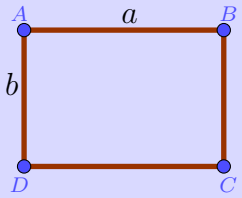
Propriété 2 :

Surface d'un disque de rayon R :



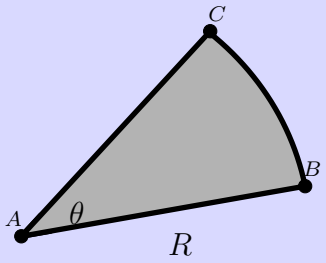
On a $S =$ .....

Surface d'un rectangle :



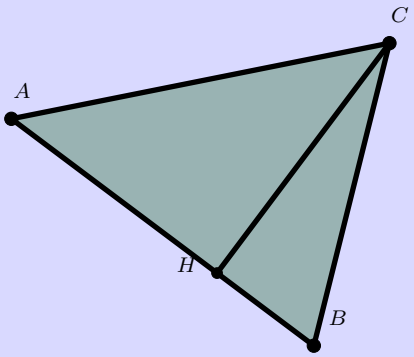
On a $S =$ .....

Surface d'un arc de cercle :



On a : $S =$ .....

Surface d'un triangle :

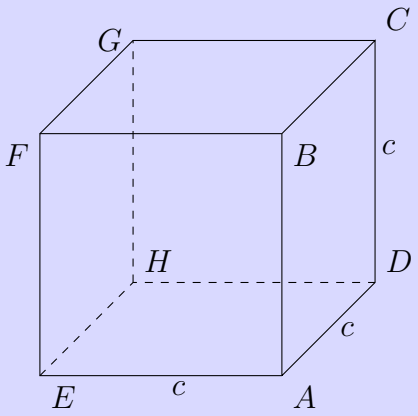


On a $S =$ .....

3 Volume

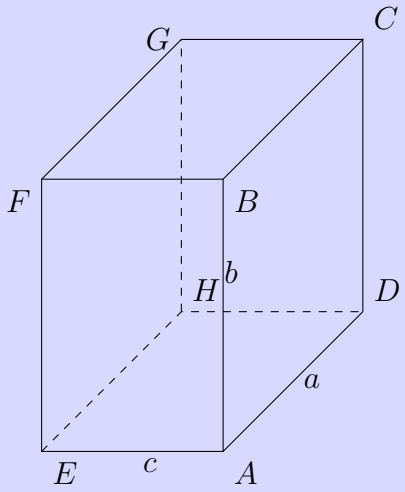
Propriété 3 :

Volume d'un cube :



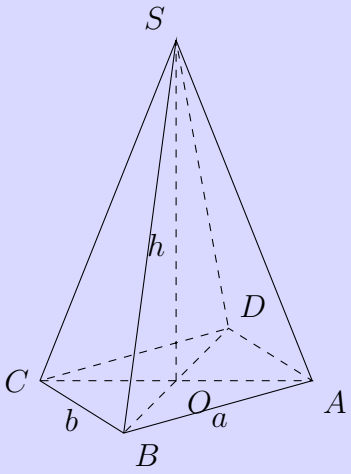
On a $V =$ .....

Volume d'un parallélépipède rectangle :



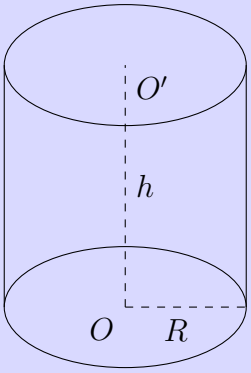
On a $V =$ .....

Volume d'une pyramide de base rectangulaire :



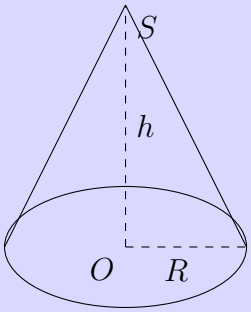
On a $V =$ .....

Volume d'un cylindre de rayon R :



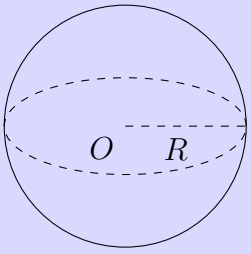
On a $V =$ .....

Volume d'un cône :



On a $V =$ .....

Volume d'une sphère :



On a $V =$ .....