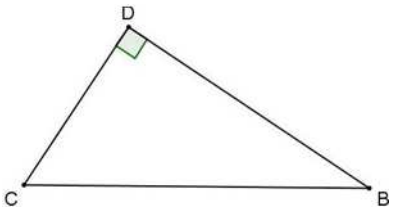
LES FONCTIONS TRIGONOMETRIQUES

Connaître les fonctions trigonométriques	RAISONNER	☹	😐	☺	☺☺

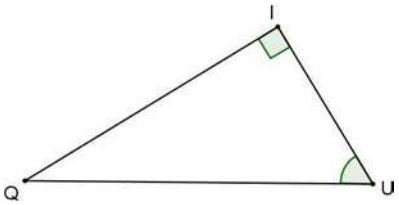
$\cos = \frac{\text{côté adjacent}}{\text{hypoténuse}}$; $\sin = \frac{\text{côté opposé}}{\text{hypoténuse}}$; $\tan = \frac{\text{côté opposé}}{\text{côté adjacent}}$

EXERCICE 1 Compléter.



1. Quel côté est l'hypoténuse ? .....
2. Quel est le côté adjacent à l'angle $\widehat{BCD}$? .....
3. Quel côté est le côté opposé à l'angle $\widehat{DBC}$? .....

EXERCICE 2 Compléter.

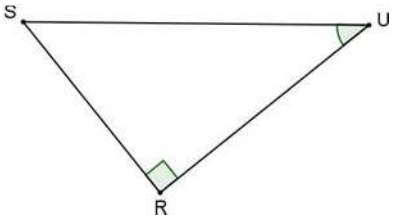


$\cos \widehat{QUI} = \frac{\text{.....}}{\text{.....}}$

$\sin \widehat{QUI} = \frac{\text{.....}}{\text{.....}}$

$\tan \widehat{QUI} = \frac{\text{.....}}{\text{.....}}$

EXERCICE 3 Compléter.

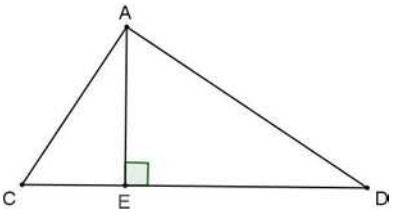


..... $\widehat{SUR} = \frac{SR}{SU}$

..... $\widehat{SUR} = \frac{SR}{RU}$

..... $\widehat{SUR} = \frac{RU}{SU}$

EXERCICE 4 Compléter.



$\sin \widehat{EAD} = \frac{\text{.....}}{\text{.....}}$

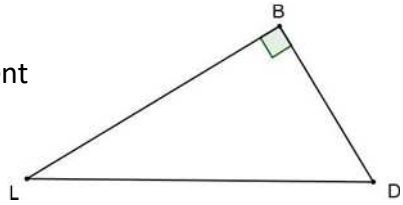
$\cos \widehat{EAC} = \frac{\text{.....}}{\text{.....}}$

$\tan \widehat{ADE} = \frac{\text{.....}}{\text{.....}}$ $\sin \widehat{ACE} = \frac{\text{.....}}{\text{.....}}$

$\cos \widehat{EAD} = \frac{\text{.....}}{\text{.....}}$ $\tan \widehat{EAC} = \frac{\text{.....}}{\text{.....}}$

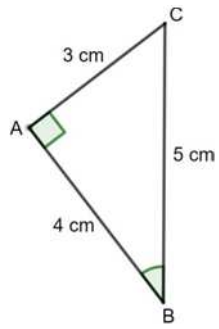
EXERCICE 5

Associer chaque quotient à la bonne fonction trigonométrique.



$\frac{LB}{DB}$ ☐	☐ $\sin \widehat{DLB}$
$\frac{DB}{DL}$ ☐	☐ $\cos \widehat{DLB}$
$\frac{LB}{DL}$ ☐	☐ $\tan \widehat{DLB}$
$\frac{DB}{BL}$ ☐	☐ $\tan \widehat{BDL}$

EXERCICE 6 Compléter.

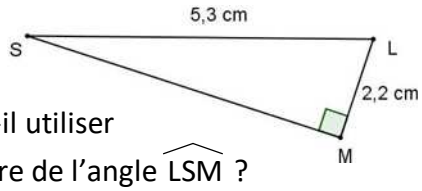


..... $\widehat{ABC} = \frac{\text{.....}}{\text{.....}} = \frac{3}{4}$

..... $\widehat{ABC} = \frac{\text{.....}}{\text{.....}} = \frac{4}{5}$

..... $\widehat{ABC} = \frac{\text{.....}}{\text{.....}} = \frac{3}{5}$

EXERCICE 7



Quelle fonction trigonométrique faut-il utiliser pour calculer la mesure de l'angle $\widehat{LSM}$?

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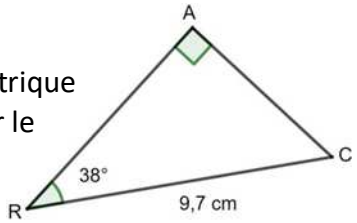
EXERCICE 8

Quelle fonction trigonométrique faut-il utiliser pour calculer le côté AR ?



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