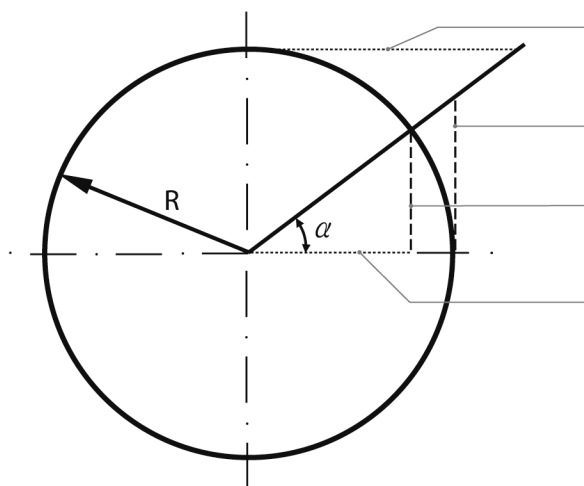


TRIGONOMÉTRIE



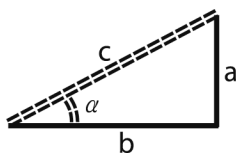
$$\text{cotangente} = \text{ctg } \alpha \cdot R$$

$$\text{tangente} = \text{tg } \alpha \cdot R$$

$$\text{sinus} = \sin \alpha \cdot R$$

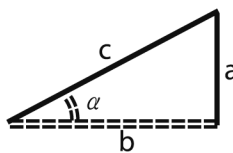
$$\text{cosinus} = \cos \alpha \cdot R$$

===== connues
 _____ inconnues



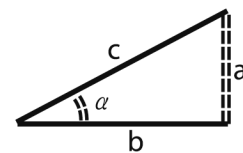
$$a = \sin \alpha \cdot c$$

$$b = \cos \alpha \cdot c$$



$$a = \text{tg } \alpha \cdot b$$

$$c = \frac{b}{\cos \alpha}$$



$$c = \frac{a}{\sin \alpha}$$

$$b = \text{ctg } \alpha \cdot a$$

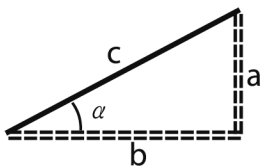
Remarque

"a" est le côté opposé à l'angle α

"b" est le côté adjacent à l'angle α

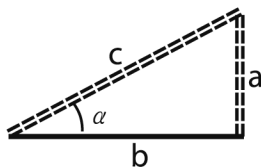
"c" est l'hypoténuse du triangle

" α " peut aussi être désigné par une autre lettre par ex. φ

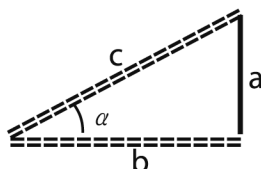


$$\text{tg } \alpha = \frac{a}{b} \quad \left(\text{tang } \frac{\text{opp}}{\text{adj}} \right)$$

$$\text{ctg } \alpha = \frac{b}{a} = \frac{1}{\text{tg } \alpha}$$



$$\sin \alpha = \frac{a}{c} \quad \left(\sin \frac{\text{opp}}{\text{hyp}} \right)$$



$$\cos \alpha = \frac{b}{c} \quad \left(\cos \frac{\text{adj}}{\text{hyp}} \right)$$

Pythagore

$$c = \sqrt{a^2 + b^2}$$

$$b = \sqrt{c^2 - a^2}$$

$$a = \sqrt{c^2 - b^2}$$