

Trigo

4.1.1 a) 4.1.4

4.1.10

4.1.15

→ Mercredi 04/02/2026

4.2.1 a) f)

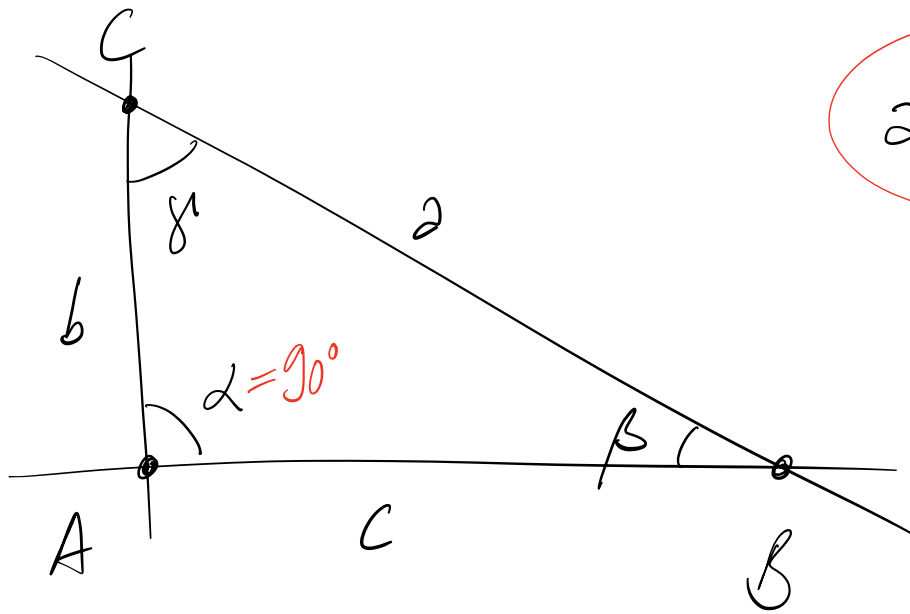
4.2.2

4.2.8

4.2.12

4.2.18

4.2.22



$$a^2 = b^2 + c^2$$

$$\cos \beta = \frac{c}{a}$$

$$\sin \beta = \frac{b}{a}$$

$$\tan \beta = \frac{b}{c}$$

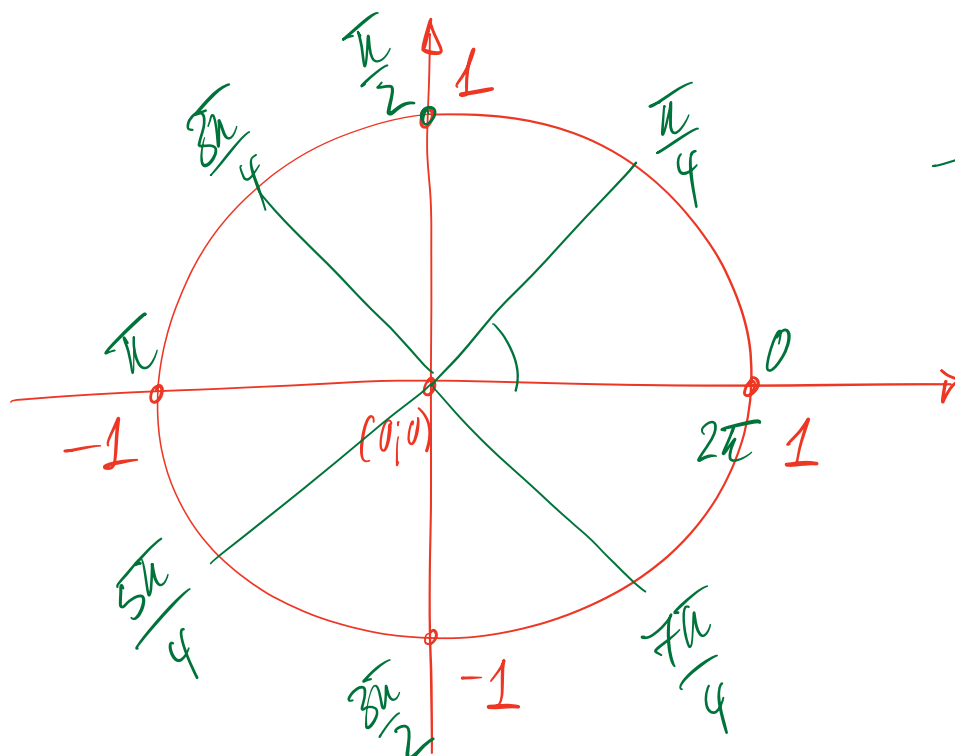
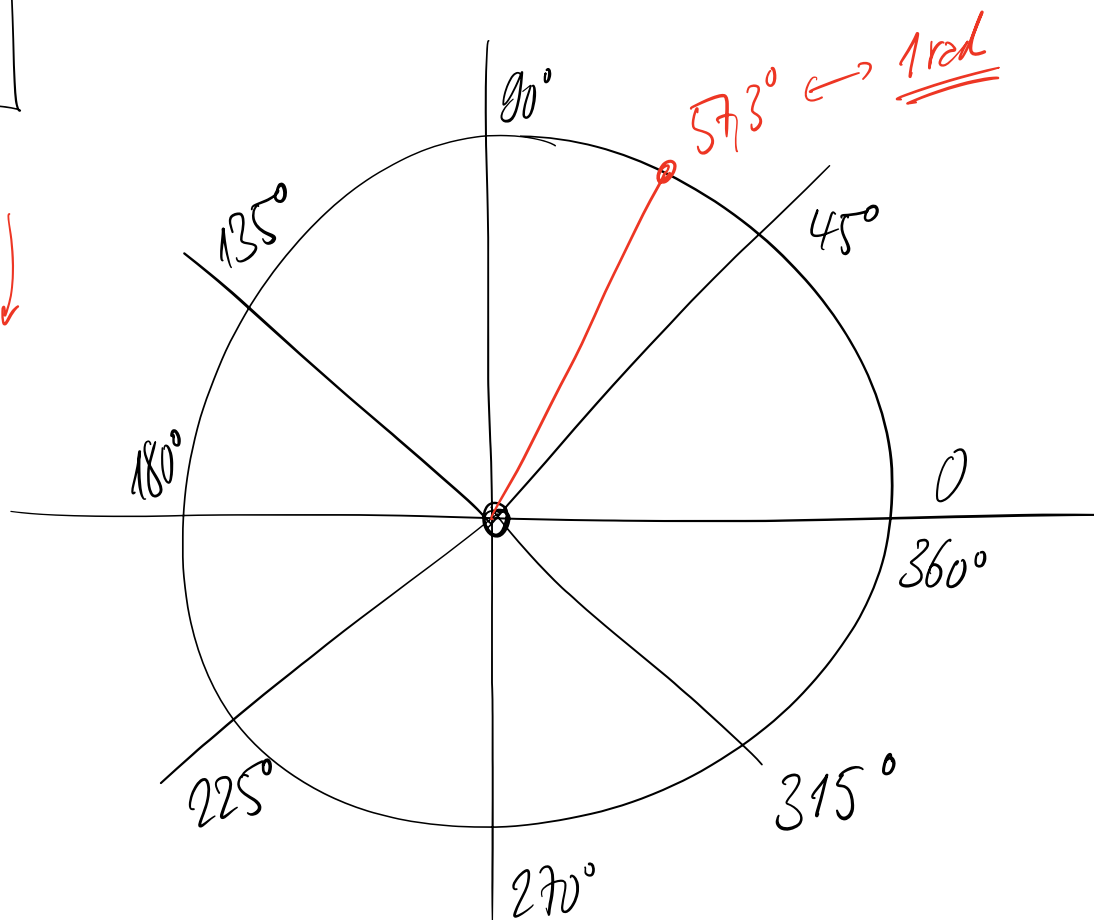
$$\cos \gamma' = \sin(90^\circ - \gamma') = \sin \beta = \frac{b}{a}$$

$$\sin \gamma' = \cos(90^\circ - \gamma') = \cos \beta = \frac{c}{a}$$

$$\tan \gamma' = \frac{1}{\tan(90^\circ - \gamma')} = \frac{1}{\tan \beta} = \frac{c}{b}$$

Units

↻ Degrees
↻ Radians



$$\frac{1 \text{ rad}}{\pi} = \frac{x}{180^\circ}$$

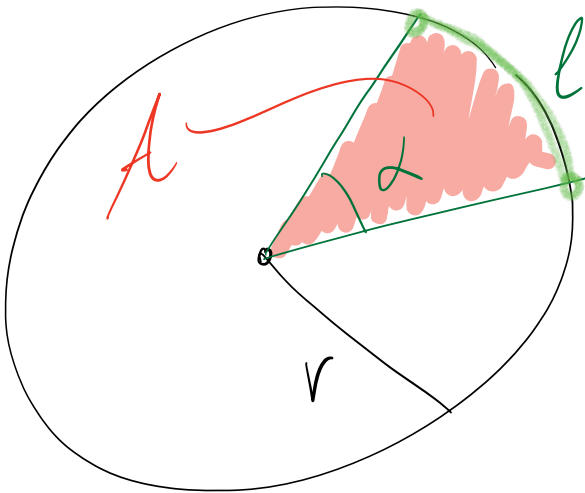
$$\frac{\pi}{6} \longleftrightarrow \frac{180^\circ}{6} = 30^\circ$$

$$\frac{3\pi}{4} \longleftrightarrow 135^\circ$$

$$\frac{\pi}{4} \longleftrightarrow 45^\circ$$

$$\frac{\pi}{2} \longleftrightarrow 90^\circ$$

$$\frac{\alpha_{\text{rad}}}{\pi} = \frac{\alpha_{\text{deg}}}{180^\circ} \quad \Leftrightarrow \quad \frac{\alpha_{\text{rad}}}{2\pi} = \frac{\alpha_{\text{deg}}}{360^\circ}$$



$$\frac{l}{2\pi r} = \frac{\alpha_{\text{rad}}}{2\pi} = \frac{\alpha_{\text{deg}}}{360^\circ}$$

$$l = 2\pi \cdot r \cdot \frac{\alpha_{\text{rad}}}{2\pi} = r \cdot \alpha_{\text{rad}}$$

$$l = \frac{\alpha_{\text{deg}} \cdot 2\pi r}{360^\circ} = \frac{\alpha_{\text{deg}} \cdot \pi \cdot r}{180^\circ}$$

De mène

$$\frac{A}{\pi r^2} = \frac{\alpha_{deg}}{360^\circ} = \frac{\alpha_{rad}}{2\pi}$$

$$A = \frac{1}{2} r^2 \alpha_{rad}$$

$$A = \frac{\pi r^2}{360^\circ} \cdot \alpha_{deg}$$