

J'entre en Terminale – Correction exercice 43

Trigonométrie Niveau 1 - Automatismes

Énoncé

Compléter les valeurs exactes :

1. $\cos 0$, $\sin 0$

2. $\cos \frac{\pi}{6}$, $\sin \frac{\pi}{6}$

3. $\cos \frac{\pi}{4}$, $\sin \frac{\pi}{4}$

4. $\cos \frac{\pi}{3}$, $\sin \frac{\pi}{3}$

5. $\cos \frac{\pi}{2}$, $\sin \frac{\pi}{2}$

6. $\cos \pi$, $\sin \pi$

Correction détaillée

$$\cos 0 = 1, \quad \sin 0 = 0$$

$$\cos \frac{\pi}{6} = \frac{\sqrt{3}}{2}, \quad \sin \frac{\pi}{6} = \frac{1}{2}$$

$$\cos \frac{\pi}{4} = \frac{\sqrt{2}}{2}, \quad \sin \frac{\pi}{4} = \frac{\sqrt{2}}{2}$$

$$\cos \frac{\pi}{3} = \frac{1}{2}, \quad \sin \frac{\pi}{3} = \frac{\sqrt{3}}{2}$$

$$\cos \frac{\pi}{2} = 0, \quad \sin \frac{\pi}{2} = 1, \quad \cos \pi = -1, \quad \sin \pi = 0.$$