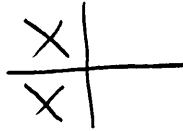


Equations trigonometriques – Exercices supplementaires

Résous les équations suivantes pour $\theta \in [0^\circ, 360^\circ]$:

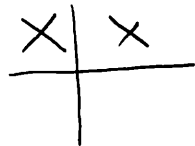
1. $\cos\theta = \frac{1}{3}$



$\theta_R = \cos^{-1}\left(\frac{1}{3}\right) \approx 70.5^\circ$

sol : $\{70.5^\circ, 289.5^\circ\}$

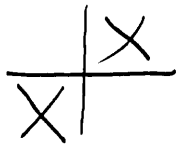
2. $\sin\theta = -\frac{\sqrt{3}}{2}$



$\theta_R = 60^\circ$

sol : $\{240^\circ, 300^\circ\}$

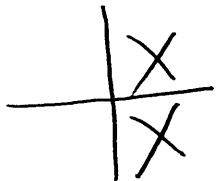
3. $\tan\theta = -1$



$\theta_R = 45^\circ$

sol : $\{135^\circ, 315^\circ\}$

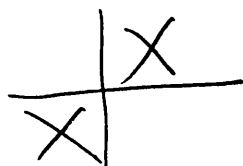
4. $\cos\theta = -\frac{\sqrt{2}}{2}$



$\theta_R = 45^\circ$

sol : $\{135^\circ, 225^\circ\}$

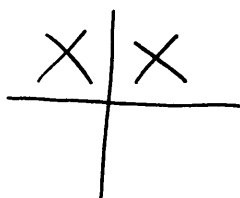
5. $\tan\theta = -0,3$



$\theta_R = \tan^{-1}(0.3) \approx 16.7^\circ$

sol : $\{163.3^\circ, 343.3^\circ\}$

6. $\sin\theta = -\frac{1}{3}$



$\theta_R = \sin^{-1}\left(\frac{1}{3}\right) \approx 19.5^\circ$

sol : $\{199.5^\circ, 340.5^\circ\}$