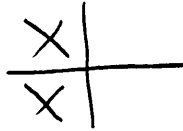


## Equations trigonometriques – Exercices supplementaires

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

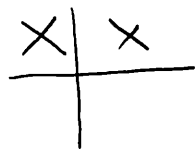
1.  $\cos\theta = \frac{1}{3}$



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

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

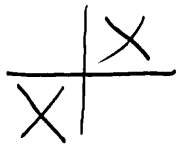
2.  $\sin\theta = -\frac{\sqrt{3}}{2}$



$\theta_R = 60^\circ$

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

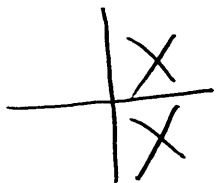
3.  $\tan\theta = -1$



$\theta_R = 45^\circ$

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

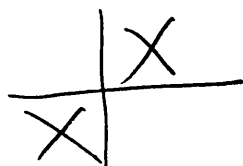
4.  $\cos\theta = -\frac{\sqrt{2}}{2}$



$\theta_R = 45^\circ$

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

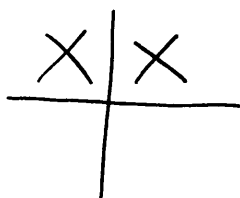
5.  $\tan\theta = -0.3$



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

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