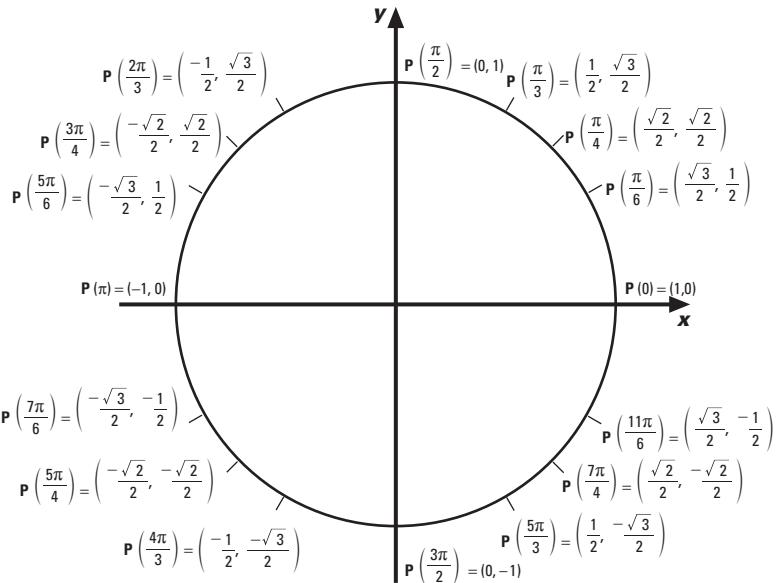


Principaux points du cercle trigonométrique



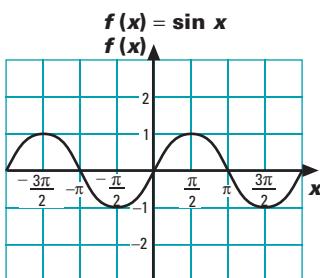
Identités trigonométriques fondamentales

- $\sin^2 A + \cos^2 A = 1$
- $\tan^2 A + 1 = \sec^2 A$
- $\cotan^2 A + 1 = \cosec^2 A$

Identités trigonométriques complémentaires

- $\sin(A + B) = \sin A \cos B + \cos A \sin B$
- $\sin(A - B) = \sin A \cos B - \cos A \sin B$
- $\tan(A + B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$ où $(1 - \tan A \tan B) \neq 0$
- $\sin 2A = 2 \sin A \cos A$
- $\sin(-A) = -\sin A$
- $\cos(A + B) = \cos A \cos B - \sin A \sin B$
- $\cos(A - B) = \cos A \cos B + \sin A \sin B$
- $\tan(A - B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}$ où $(1 + \tan A \tan B) \neq 0$
- $\cos 2A = \cos^2 A - \sin^2 A$
- $\cos(-A) = \cos A$
- $\tan 2A = \frac{2 \tan A}{1 - \tan^2 A}$ où $(1 - \tan^2 A) \neq 0$
- $\tan(-A) = -\tan A$

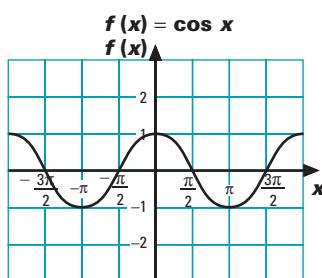
Représentation graphique des fonctions sinus, cosinus et tangente



Période: 2π

Zéros: $\{..., -\pi, 0, \pi, ...\}$

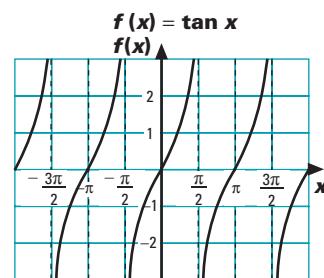
Minimum: -1 Maximum: 1



Période: 2π

Zéros: $\left\{ ..., -\frac{3\pi}{2}, -\frac{\pi}{2}, \frac{\pi}{2}, \frac{3\pi}{2}, ... \right\}$

Minimum: -1 Maximum: 1



Période: π

Zéros: $\{..., -\pi, 0, \pi, ...\}$

Asymptotes: $x = -\frac{3\pi}{2}, -\frac{\pi}{2}, \frac{\pi}{2}, \frac{3\pi}{2}, ...$