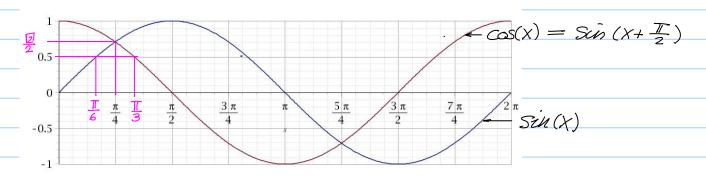
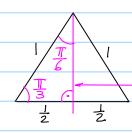
## Prélude

## Voir serie -1

## Fonctions étémentaires (exemples)

Sin(X), cos(X), fan(X)



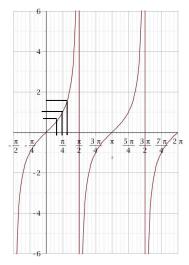


triangle Equilateral

$$\sqrt{1-(\frac{1}{2})^{2^{l}}} = \sqrt{\frac{3}{4^{l}}} = \frac{\sqrt{3}}{2}$$

$$\sin(\frac{\pi}{6}) = \frac{\frac{1}{2}}{1} = \frac{1}{2} , \cos(\frac{\pi}{6}) = \frac{\frac{3}{2}}{1} = \frac{3}{2}$$

$$\sin(\frac{\pi}{3}) = \frac{\frac{3}{2}}{1} = \frac{1}{2} , \cos(\frac{\pi}{3}) = \frac{\frac{1}{2}}{1} = \frac{1}{2}$$



$$fg(x) \equiv fau(x)$$

Notations Equivalents

$$fan(X) := \frac{Sin(X)}{COS(X)}$$

 $fan(x) := \frac{\sin(x)}{\cos(x)}$   $\int_{-\infty}^{\infty} est \ par \ definition \ egal \ a''$ 

$$fan\left(\frac{T}{4}\right) = \frac{Scis\left(\frac{T}{4}\right)}{cos\left(\frac{T}{4}\right)} = \frac{\frac{\sqrt{27}}{2}}{\frac{\sqrt{27}}{2}} = 1$$

$$\frac{1}{2} = \frac{\sin(\frac{\pi}{6})}{\cos(\frac{\pi}{6})} = \frac{\frac{1}{2}}{\frac{3^{2}}{2}} = \frac{1}{3^{2}} = \frac{\sqrt{3^{2}}}{3}$$

$$\frac{1}{4}an\left(\frac{\pi}{3}\right) = \frac{\sin\left(\frac{\pi}{3}\right)}{\cos\left(\frac{\pi}{3}\right)} = \frac{\frac{3^{7}}{2}}{\frac{1}{2}} = 13^{7}$$