

Formules trigonométriques

$\sin^2 x + \cos^2 x = 1$ $\cos^2 x = \frac{1}{1 + \tan^2 x}$			$\sin^2 x = \frac{\tan^2 x}{1 + \tan^2 x}$			$1 + \tan^2 x = \frac{1}{\cos^2 x}$		
$\sin(\pi - x) = \sin x$ $\cos(\pi - x) = -\cos x$ $\tan(\pi - x) = -\tan x$			$\sin(\pi + x) = -\sin x$ $\cos(\pi + x) = -\cos x$ $\tan(\pi + x) = \tan x$			$\sin(-x) = -\sin x$ $\cos(-x) = \cos x$ $\tan(-x) = -\tan x$		
$\sin\left(\frac{\pi}{2} - x\right) = \cos x$ $\cos\left(\frac{\pi}{2} - x\right) = \sin x$ $\tan\left(\frac{\pi}{2} - x\right) = \cotan x$			$\sin\left(\frac{\pi}{2} + x\right) = \cos x$ $\cos\left(\frac{\pi}{2} + x\right) = -\sin x$ $\tan\left(\frac{\pi}{2} + x\right) = -\cotan x$					
$\sin(x + y) = \sin x \cos y + \cos x \sin y$ $\sin(x - y) = \sin x \cos y - \cos x \sin y$			$\tan(x + y) = \frac{\tan x + \tan y}{1 - \tan x \tan y}$			$\cos(x + y) = \cos x \cos y - \sin x \sin y$ $\cos(x - y) = \cos x \cos y + \sin x \sin y$		
$\sin 2x = 2 \sin x \cos x$ $\cos 2x = \cos^2 x - \sin^2 x$			$2 \cos^2 x = 1 + \cos 2x$ $2 \sin^2 x = 1 - \cos 2x$					
$\sin 2x = \frac{2 \tan x}{1 + \tan^2 x}$			$\cos 2x = \frac{1 - \tan^2 x}{1 + \tan^2 x}$			$\tan 2x = \frac{2 \tan x}{1 - \tan^2 x}$		
$\sin 3x = 3 \sin x - 4 \sin^3 x$			$\cos 3x = -3 \cos x + 4 \cos^3 x$					
$\sin p + \sin q = 2 \sin \frac{p+q}{2} \cos \frac{p-q}{2}$ $\sin p - \sin q = 2 \sin \frac{p-q}{2} \cos \frac{p+q}{2}$ $\cos p + \cos q = 2 \cos \frac{p+q}{2} \cos \frac{p-q}{2}$ $\cos p - \cos q = -2 \sin \frac{p+q}{2} \sin \frac{p-q}{2}$			$\tan p + \tan q = \frac{\sin(p+q)}{\cos p \cos q}$ $\tan p - \tan q = \frac{\sin(p-q)}{\cos p \cos q}$					
$\sin x \cos y = \frac{1}{2} [\sin(x+y) + \sin(x-y)]$ $\cos x \cos y = \frac{1}{2} [\cos(x+y) + \cos(x-y)]$ $\sin x \sin y = \frac{1}{2} [\cos(x-y) - \cos(x+y)]$								