

Algumas fórmulas sobre funções trigonométricas

- $\sin^2 x + \cos^2 x = 1$.
- $\operatorname{tg} x = \frac{\sin x}{\cos x}$, $\operatorname{cotg} x = \frac{\cos x}{\sin x}$.
- $\sec x = \frac{1}{\cos x}$, $\operatorname{cosec} x = \frac{1}{\sin x}$.
- $\sin(x + y) = \sin x \cos y + \cos x \sin y$.
- $\sin(x - y) = \sin x \cos y - \cos x \sin y$.
- $\sin 2x = 2 \sin x \cos x$.
- $\cos(x + y) = \cos x \cos y - \sin x \sin y$.
- $\cos(x - y) = \cos x \cos y + \sin x \sin y$.
- $\cos 2x = \cos^2 x - \sin^2 x$.
- $\cos^2 x = \frac{1 + \cos 2x}{2}$, $\sin^2 x = \frac{1 - \cos 2x}{2}$.

	$\pi/6$	$\pi/4$	$\pi/3$
sen	$1/2$	$\sqrt{2}/2$	$\sqrt{3}/2$
cos	$\sqrt{3}/2$	$\sqrt{2}/2$	$1/2$

	0	$\pi/2$	π	$3\pi/2$
sen	0	1	0	-1
cos	1	0	-1	0

- $\sin(-x) = -\sin x$.
- $\cos(-x) = \cos x$.
- $\sin(\pi - x) = \sin x$.
- $\cos(\pi - x) = -\cos x$.
- $\sin(\pi + x) = -\sin x$.
- $\cos(\pi + x) = -\cos x$.
- $\sin(\pi/2 - x) = \cos x$.
- $\cos(\pi/2 - x) = \sin x$.
- $\sin(\pi/2 + x) = \cos x$.
- $\cos(\pi/2 + x) = -\sin x$.
- $\sin(3\pi/2 - x) = -\cos x$.
- $\cos(3\pi/2 - x) = -\sin x$.
- $\sin(3\pi/2 + x) = -\cos x$.
- $\cos(3\pi/2 + x) = \sin x$.

Algumas fórmulas sobre funções hiperbólicas

- $\operatorname{ch} x = \frac{e^x + e^{-x}}{2}$, $\operatorname{sh} x = \frac{e^x - e^{-x}}{2}$.
- $\operatorname{ch}^2 x - \operatorname{sh}^2 x = 1$.
- $\operatorname{th} x = \frac{\operatorname{sh} x}{\operatorname{ch} x}$, $\operatorname{coth} x = \frac{\operatorname{ch} x}{\operatorname{sh} x}$.
- $\operatorname{sech} x = \frac{1}{\operatorname{ch} x}$, $\operatorname{cosech} x = \frac{1}{\operatorname{sh} x}$.
- $\operatorname{sh}(x + y) = \operatorname{sh} x \operatorname{ch} y + \operatorname{ch} x \operatorname{sh} y$.
- $\operatorname{sh}(x - y) = \operatorname{sh} x \operatorname{ch} y - \operatorname{ch} x \operatorname{sh} y$.
- $\operatorname{sh} 2x = 2 \operatorname{sh} x \operatorname{ch} x$.
- $\operatorname{ch}(x + y) = \operatorname{ch} x \operatorname{ch} y + \operatorname{sh} x \operatorname{sh} y$.
- $\operatorname{ch}(x - y) = \operatorname{ch} x \operatorname{ch} y - \operatorname{sh} x \operatorname{sh} y$.
- $\operatorname{ch} 2x = \operatorname{ch}^2 x + \operatorname{sh}^2 x$.
- $\operatorname{ch}^2 x = \frac{\operatorname{ch} 2x + 1}{2}$, $\operatorname{sh}^2 x = \frac{\operatorname{ch} 2x - 1}{2}$.