

# Trigonometry

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

$$\cos^2 \theta + \sin^2 \theta = 1,$$

$$1 + \tan^2 \theta = \sec^2 \theta,$$

$$\cot^2 \theta + 1 = \operatorname{cosec}^2 \theta$$

$$\sin(A \pm B) = \sin A \cos B \pm \cos A \sin B$$

$$\cos(A \pm B) = \cos A \cos B \mp \sin A \sin B$$

$$\tan(A \pm B) = \frac{\tan A \pm \tan B}{1 \mp \tan A \tan B}$$

$$\sin 2A = 2 \sin A \cos A$$

$$\cos 2A = \cos^2 A - \sin^2 A = 2 \cos^2 A - 1 = 1 - 2 \sin^2 A$$

$$\tan 2A = \frac{2 \tan A}{1 - \tan^2 A}$$

Principal values:

$$-\frac{1}{2}\pi < \sin^{-1} x < \frac{1}{2}\pi,$$

$$0 < \cos^{-1} x < \pi,$$

$$-\frac{1}{2}\pi < \tan^{-1} x < \frac{1}{2}\pi$$

## Differentiation

$f(x)$	$f'(x)$
$x^n$	$nx^{n-1}$
$\ln x$	$\frac{1}{x}$
$e^x$	$e^x$
$\sin x$	$\cos x$
$\cos x$	$-\sin x$
$\tan x$	$\sec^2 x$
$\sec x$	$\sec x \tan x$
$\operatorname{cosec} x$	$-\operatorname{cosec} x \cot x$
$\cot x$	$-\operatorname{cosec}^2 x$
$\tan^{-1} x$	$\frac{1}{1+x^2}$
$uv$	$v \frac{du}{dx} + u \frac{dv}{dx}$
$\frac{u}{v}$	$\frac{v \frac{du}{dx} - u \frac{dv}{dx}}{v^2}$

If  $x = f(t)$  and  $y = g(t)$  then  $\frac{dy}{dx} = \frac{dy}{dt} \div \frac{dx}{dt}$

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**Thirumalaisamy P.  
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