Trigonometry

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

$$\cos^2\theta + \sin^2\theta = 1, \qquad 1 + \tan^2\theta = \sec^2\theta, \qquad \cot^2\theta + 1 = \operatorname{cosec}^2\theta$$

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

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

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

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

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

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

Principal values:

$$-\tfrac{1}{2}\pi \leqslant \sin^{-1}x \leqslant \tfrac{1}{2}\pi, \qquad 0 \leqslant \cos^{-1}x \leqslant \pi, \qquad -\tfrac{1}{2}\pi < \tan^{-1}x < \tfrac{1}{2}\pi$$

Differentiation

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

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

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Alan Jeffrey

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a single easily accessible source In about 50 pages the 350 most essential mathematical formulas are listed Unlike other large books on this topic there is no need to go through hundreds of pages and thousands of formulas for the student to get the basic equations The author has searched several books on mathematical formulas and tables and selected only those equations which are essential to the student The mathematical formulas and equations listed in this book are useful for students and researchers in various fields including mathmecatics physics engineering etc Only the most elementary and basic topics are covered including formulas for various gemoetric shapes several types of functions trigonometric hyperbolic exponential logarithmic etc the quadratic equation analytic geometry derivatives and integrals arithmetic series geometric series and Taylor series   *The Interpretation of Mathematical Formulae* Edwin James Houston,Arthur Edwin Kennelly,1898

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Mathematical, Scientific, and Engineering Formulas, Tables, Functions, Graphs, Transforms Max Fogiel,Research and Education Association,1984-01-01 *Mathematical Formulae* R. M. Milburn,1880

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