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 e^{kx} $k e^{kx}$ a^x $a^x \ln a$ $\tan x$ $\sec^2 x$ $\cot x - \operatorname{cosec}^2 x$
 $\sec x$ $\sec x$ $\tan x$ $\operatorname{cosec} x - \operatorname{cosec} x$ $\cot x$

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$\sinh x \cosh x \cosh x \sinh x \frac{dy}{dx} \frac{dv}{du} = u +$
 $\frac{dx}{u} \frac{dy}{dx} = \int \frac{dy}{y} = \ln y + C$, then $v \frac{dx}{dv} = u$
 $-\frac{u}{v} \frac{dx}{dv} = \frac{d}{dv} \left(\frac{u}{v} \right) \frac{dx}{dv} = -\frac{u}{v^2} \frac{dx}{dv}$ If $y = y(v)$ where $v = v(x)$, then
 $\frac{dy}{dy} \frac{dv}{dv} = \frac{dx}{dx} \frac{dv}{dx} \frac{dx}{dv}$ 3

Engineering Mathematics Formula Sheet

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Sheets. $y=f(x)$ $\frac{dy}{dx} nx^{n-1}$ e^x . x^n e^x $\ln x$ $\sin x$ $\cos x$ e^{kx} ax . $\frac{1}{x}$ $\cos x$ $-\sin x$ $k e^{kx}$ $a \ln a$.
 $\tan x$ $\cot x$ $\sec x$ $\operatorname{cosec} x$ $\sinh x$ $\cosh x$. $\sec^2 x$ $-\operatorname{cosec}^2 x$ $\sec x$. $\tan x$ $-\operatorname{cosec} x$. $\cot x$ $\cosh x$ $\sinh x$.
If $y = uv$, then. $\frac{dy}{dx} = u \frac{dv}{dx} + v \frac{du}{dx}$
If $y = \frac{u}{v}$, then $\frac{dy}{dx} = \frac{v \frac{du}{dx} - u \frac{dv}{dx}}{v^2}$
If $y = y(v)$ where $v = v(x)$, then

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F = force d = distance
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' L Power (Guy-L ' L $P_1 V_1 = P_2 V_2$ B
y ' L $Q = Av$ $A_1 v_1 = A_2 v_2 + V$
absolute pressure = gauge pressure +
atmospheric pressure
P = absolute pressure
Force A = Area V = volume T T = absolute

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temperature $Q = \text{flow rate}$

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Formula of Circle. Area of Circle = πr^2

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r^2 \) Perimeter of Circle = $(2 \pi r)$

Where, r = Radius, d = Diameter, $d = 2r$.

Formula of Scalene Triangle. Area of Scalene

Triangle = $(\sqrt{s(s-a)(s-b)(s-c)})$

Perimeter of Scalene Triangle = $(a+b+c)$

Where, a, b, c are Side of Scalene Triangle

Formula of Isoscele Triangle

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This last result is a special case of the more general formula, $N \cdot 1 \cdot n(n+1)(n+2) \dots (n+r) = N(n+1)(n+2) \dots (N+r)(N+r+1) \dots r+2$.

Plane wave expansion $\exp(ikz) = \exp(ikr \cos \theta) = \sum_{l=0}^{\infty} (2l+1) i^l j_l(kr) P_l(\cos \theta)$, where $P_l(\cos \theta)$ are Legendre polynomials

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(see section 11) and $j_l(kr)$ are spherical
Bessel functions, denoted by $j_l(\hat{r}) = r^{-1/2} \hat{r}^l$
 $J_{l+1/2} = 2$

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