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$y=f(x) \quad \frac{dy}{dx} = u \frac{dv}{dx} + v \frac{du}{dx}$

$\frac{d}{dx} e^x = e^x \quad \frac{d}{dx} \ln x = \frac{1}{x}$

$\frac{d}{dx} \sin x = \cos x \quad \frac{d}{dx} \cos x = -\sin x$

$\frac{d}{dx} e^{kx} = ke^{kx} \quad \frac{d}{dx} a^{kx} = ka^{kx} \ln a$

$\frac{d}{dx} \tan x = \sec^2 x \quad \frac{d}{dx} \cot x = -\operatorname{cosec}^2 x$

$\frac{d}{dx} \sec x = \sec x \tan x \quad \frac{d}{dx} \operatorname{cosec} x = -\operatorname{cosec} x \cot x$

$\frac{d}{dx} \sinh x = \cosh x \quad \frac{d}{dx} \cosh x = \sinh x$

$\frac{d}{dx} \frac{dy}{dv} = \frac{dy}{dx} \frac{dx}{dv}$

If  $y = y(v)$ , then  $\frac{dy}{dx} = \frac{dy}{dv} \frac{dv}{dx}$

where  $v = v(x)$ , then  $\frac{dy}{dx} = \frac{dy}{dv} \frac{dv}{dx}$

Engineering Mathematics Formula

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Sheet [134wx9er6zn7]

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

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 $T F = \text{Efficiency}$   $d = d_{00}$  Energy:  
Work  $W = \text{work}$   $F = \text{force}$   $d =$   
distance Fluid Mechanics  $1 T' L$   
Power (Guy- $L' L P 1 V 1 = P 2 V$   
 $2 B y' L Q = A v A 1 v 1 = A 2 v$   
 $2 + V$  absolute pressure = gauge  
pressure + atmospheric pressure  
 $P = \text{absolute pressure}$  Force  $A =$   
Area  $V = \text{volume}$   $T T = \text{absolute}$

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Formulae Q = flow rate

Engineering Formula Sheet

8.2 Worked problems on

transposition of formulae 54 8.3

Further worked problems on

transposition of formulae 55 8.4

Harder worked problems on

transposition of formulae 57

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Basic Engineering Mathematics -

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Formula of Circle. Area of Circle =

$\pi r^2$  Perimeter of Circle

=  $2\pi r$  Where,  $r$  = Radius,

$d$  = Diameter,  $d = 2r$  . Formula of

Scalene Triangle. Area of Scalene

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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,  $N = 1$

$n(n+1)(n+2) \dots (n+r) = N(n+1)(n+2) \dots (N+r)(N+r+1)$  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 (see section 11) and  $j_l(kr)$  are spherical Bessel

functions, dened by  $j_l(\hat{r}) = r^{-l} \frac{d^l}{dr^l} (r^{l+1} J_{l+1/2}(kr))$

$2^{l+1} J_{l+1/2}(kr) = r^{l+1} \frac{d^l}{dr^l} (r^{-l} J_{l+1/2}(kr))$

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