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162001 – Engineering Mathematics - Formula Sheets
If $y = uv$, then $y=f(x)$ $\frac{dy}{dx} = u \frac{dv}{dx} + v \frac{du}{dx}$
 $x^n \frac{d}{dx} x^n = nx^{n-1}$ $e^x \frac{d}{dx} e^x = e^x$ $\ln x \frac{d}{dx} \ln x = \frac{1}{x}$ $\sin x \frac{d}{dx} \sin x = \cos x$ $\cos x \frac{d}{dx} \cos x = -\sin x$ $e^{kx} \frac{d}{dx} e^{kx} = k e^{kx}$ $a^x \frac{d}{dx} a^x = a^x \ln a$ $\tan x \frac{d}{dx} \tan x = \sec^2 x$ $\cot x \frac{d}{dx} \cot x = -\operatorname{cosec}^2 x$ $\sec x \frac{d}{dx} \sec x = \sec x \tan x$ $\operatorname{cosec} x \frac{d}{dx} \operatorname{cosec} x = -\operatorname{cosec} x \cot x$
 $\sinh x \frac{d}{dx} \sinh x = \cosh x$ $\cosh x \frac{d}{dx} \cosh x = \sinh x$ $\frac{dy}{dv} \frac{dv}{du} = \frac{dy}{du}$ $\frac{du}{dx} = u + v$ $\frac{dy}{dx} = \frac{dy}{dv} \frac{dv}{dx}$ $\frac{dv}{du} = -u \frac{dx}{dx} = -u$ $\frac{dy}{dx} = \frac{dy}{dv} \frac{dv}{dx}$ $\frac{dv}{du} = \frac{1}{v^2}$ If $y = y(v)$ where $v = v(x)$...

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1. The volume of a solid cylinder of height H and cross sectional area A is $V = A H$ Make H the subject and evaluate it when $V = 100 \text{ cm}^3$ and $A = 40 \text{ cm}^2$
2. Ohm's Law states $V = I R$ Make R the subject and find the resistance when $I = 2$ Amperes and $V = 24$ Volts.
3. The law of a lifting jack is $D \eta C E = +$ Make η the subject of the formula.

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2 Engineering Mathematics-I Example: $\begin{vmatrix} 4 & 2 & 1 & 1 & 3 \\ 0 & 4 & 2 & 1 & 5 \\ -3 & 1 & -1 & 3 & 5 \\ ++ & + & ++ & & \end{vmatrix}$ expand thorough first row. $4(2 \cdot 0 - 1 \cdot 1) - 1(0 \cdot 4 - 1 \cdot 1) + 1(0 \cdot 4 - 1 \cdot 1) + 1(0 \cdot 4 - 1 \cdot 1) + 3(0 \cdot 4 - 1 \cdot 1) = 4(-2) - 1(-1) + 1(-1) + 1(-1) + 3(-1) = -8 + 1 - 1 - 1 - 3 = -12$ Minor of an element: Minor of an element is a determinant obtained by deleting the row and column in ...

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