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2 Engineering Mathematics-I Example:  $\begin{vmatrix} - & - & - & 1 & -1 & 3 & 0 & 4 & 2 & 1 & 1 & 5 & -3 & + & + & + & + \end{vmatrix}$  expand through first row.  
 $4 \cdot 2 \cdot 0 \cdot 4 \cdot 1 - (-1) \cdot 3 \cdot 5 - 3 \cdot 1 \cdot 1 - 3 \cdot 1 \cdot 1 \cdot 5 = + + = 1 (-12 - 10) + 1 (0 - 22) + 3 (0 - 44) = -22 - 22 - 132 = -176$  Minor of an element: Minor of an element is a determinant obtained by deleting the row and column in ...

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natural numbers (which may be finite or infinite) and the range may be the set of real numbers or complex numbers.

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162001 - Engineering Mathematics - Formula Sheets If  $y = uv$ , then  $y=f(x)$   $dy dx$   $x^n$   $n x^{n-1}$   $e^x$   $e^x \ln x$   $\sin x$   $\cos x$   $\cos x - \sin x$   $e^{kx}$   $k e^{kx}$   $a^x$   $a^x \ln a$   $\tan x$   $\sec^2 x$   $\cot x - \text{cosec}^2 x$   $\sec x$   $\sec x$   $\tan x$   $\text{cosec} x - \text{cosec} x$   $\cot x$   $\sinh x$   $\cosh x$   $\cosh x$   $\sinh x$   $dy dv du = u + v$   $dx dx dx$   $u dy =$  If  $y =$ , then  $v dx v du dv - u dx dx v^2$  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  $I = 2 \text{ Amperes}$  and  $V = 24 \text{ Volts}$ . 3. The law of a lifting jack is  $D \eta C E = +$  Make  $\eta$  the subject of the formula.