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

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and column in which that element occurs.

ENGINEERING MATHEMATICS-I

Engineering Mathematics - I Dr. V. Loksha 10 MAT11 9 2011 2. Find the nth derivative of $\log 4x^2 + 8x + 3$ Solution : Let $y = \log 4x^2 + 8x + 3 = \log (4x^2 + 8x + 3) \frac{1}{2}$ yie., $2 \frac{1}{2} = \log (4x^2 + 8x + 3) \therefore \log x^n = n \log x$ $2 \frac{1}{2} y = \log \{ (2x + 3) (2x+1) \}$, by factorization. $\therefore 2 \frac{1}{2} y = \{ \log (2x + 3) + \log (2x + 1) \}$
Now $() () () () ()$

Engineering Mathematics - I

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