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2 Engineering
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Example: $\begin{vmatrix} - & - & - & 1 & -1 & 3 \\ 0 & 4 & 2 & 1 & 1 & 3 \\ 2 & 1 & 1 & 5 & -3 & + & + & + & + \end{vmatrix}$
expand thorough first
row. $4 \cdot 2 \cdot 0 \cdot 4 \cdot 1 - (-1) \cdot 3$

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$$5 - 3 \cdot 11 - 3 \cdot 11 \cdot 5 = + + \\ = 1(-12 - 10) + 1(0 - 22) + 3(0 - 44) = -22 \\ - 22 - 132 = -176$$

Minor of an element:

Minor of an element is a determinant obtained by deleting the row and column in which that element occurs.

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derivative of $\log 4x^2 + 8x + 3$

Solution : Let $y =$

$\log 4x^2 + 8x + 3 = \log$

$(4x^2 + 8x + 3)^{1/2}$ i.e., 2

$1 = \log (4x^2 + 8x + 3)$

$\therefore \log x^n = n \log x$ $2 \cdot 1 y$

$= \log \{ (2x + 3)$

$(2x+1)\}$, by

factorization. $\therefore 2 \cdot 1 y =$

$\{\log (2x + 3) + \log (2x$

$+ 1)\}$ Now $() () () () ()$

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1. Series Arithmetic
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progressions A.P. $S_n =$
 $a + (a + d) + (a + 2d) +$
 $+ [a + (n - 1)d] = \frac{n}{2} [2a$
 $+ (n - 1)d]$ G.P. $S_n = a +$
 $ar + ar^2 + \dots + ar^{n-1} = a$

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$\sum_{j=1}^{\infty} r^j < 1$ (These results also hold for complex series.)
Convergence of series: the ratio test
 $S_n = u_1 + u_2 + u_3 + \dots + u_n$
converges as $n \rightarrow \infty$ if $\lim_{n \rightarrow \infty} \frac{u_{n+1}}{u_n} < 1$
Convergence of series: the comparison test

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If the runoff coefficient
is 2, the intensity, in

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inches of rain, is 4 and the basin - a specified area of land - is 1/2 acre, the engineer's formula resembles this: $(2 \times 4) / (.5 \times 43,560)$, or...

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