

13/8/2016

* Determinant value of a square matrix :- the sum of the products of elements of a row (column) with their corresponding cofactors is known as determinant value of a square matrix.

2x2 $\begin{bmatrix} a & d \\ c & b \end{bmatrix}$ 2x2

$|A| = ad - bc$

3x3 $A = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 5 & 1 \\ 1 & 3 & 7 \end{bmatrix}$ 3x3

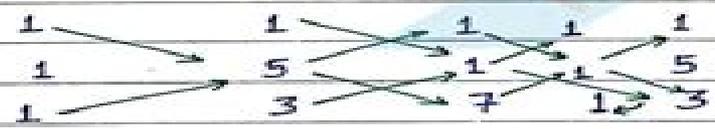
$|A| = 1 \begin{vmatrix} 5 & 1 \\ 3 & 7 \end{vmatrix} - 1 \begin{vmatrix} 1 & 1 \\ 1 & 7 \end{vmatrix} + 1 \begin{vmatrix} 1 & 5 \\ 1 & 3 \end{vmatrix}$

$|A| = 1(35 - 3) - 1(7 - 1) + 1(3 - 5)$

$|A| = 32 - 6 - 2$

$|A| = 24$

Trick
3x3



$U = 1 + 3 + 7 = 15$

$L = 35 + 1 + 3 = 39$

$|A| = 39 - 15$
 $= (L - U)$
 $= 24$

1st Engineering Mathematics Notes

Ying-Ying Zheng



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