

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

$|A| = ad - bc$

3x3

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

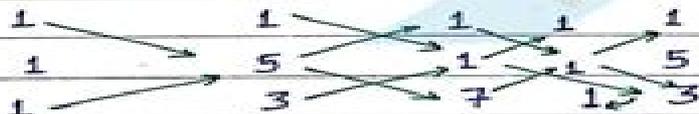
$|A| = 1 \begin{vmatrix} 5 & 1 \\ 3 & 7 \end{vmatrix} - 1 \begin{vmatrix} 1 & 1 \\ 1 & 7 \end{vmatrix} + 1 \begin{vmatrix} 1 & 5 \\ 1 & 3 \end{vmatrix}$

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

$|A| = 32 - 6 - 2$

$|A| = 24$

Trick
3x3



$U = 5 + 3 + 7 = 15$

$L = 35 + 1 + 3 = 39$

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

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H.. Burnip



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web objective of the engineering physics lab manual is to furnish the conceptual understanding of the basic principles the experiments are selected from various areas of physics like lasers fiber optics electricity magnetism and basic electronics the lab manual was written as per the new syllabus

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web each student should bring to the laboratory a physics laboratory notebook coil bound with $\frac{1}{4}$ or 5 mm grid paper an inexpensive set of geometrical instruments and a calculator with trigonometric functions specific instructions about the materials required for the laboratory will be given in the first meeting of the class absenteeism

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