

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

$|A| = ad - bc$

3x3

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

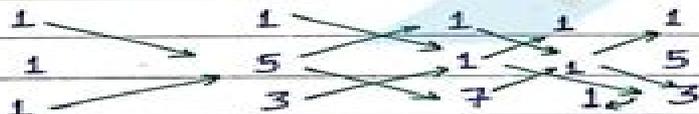
$|A| = 1 \begin{vmatrix} 5 & 1 \\ 3 & 7 \end{vmatrix} - 1 \begin{vmatrix} 1 & 1 \\ 1 & 7 \end{vmatrix} + 1 \begin{vmatrix} 1 & 5 \\ 1 & 3 \end{vmatrix}$

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

$|A| = 32 - 6 - 2$

$|A| = 24$

Trick  
3x3



$U = 5 + 3 + 7 = 15$

$L = 35 + 1 + 3 = 39$

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

# Engineering Mathematics 3 Notes

**Pennsylvania State University**



### **Engineering Mathematics 3 Notes:**

**Notes** ,1923 *Catalog* South Dakota Agricultural College, South Dakota State College of Agriculture and Mechanic Arts, South Dakota State University, 1919 Courses of Study Catholic University of America, Washington Catholic university of America (D.C.), 1923 Notes on Irrigation Works Nicol Finlayson Mackenzie, 1910 *Pennsylvania Library and Museum Notes* ,1929 American Book Publishing Record ,2003 Catalogue of the Trustees, Faculty and Students of South Carolina College University of South Carolina, 1910 **Catalog ...** University of South Carolina, 1910 Notes on the history of University college, London. With a record of the session 1886-87 London univ, univ. coll, 1886 **Cornell University Announcements** Cornell University, 1915 **Library of Congress Catalogs** Library of Congress, 1979 Bulletin Gettysburg College, 1930 *Catalog* Pennsylvania State University, 1894 **General Catalog Issue** Pennsylvania State College, Pennsylvania State University, 1894 *University of the State of New York Bulletin* ,1920 **The American Catalogue** ,1908 American national trade bibliography **New Serial Titles** ,1997 A union list of serials commencing publication after Dec 31 1949 **Register** Tulane University, 1909 Next Generation Science Standards NGSS Lead States, 2013-09-15 Next Generation Science Standards identifies the science all K 12 students should know These new standards are based on the National Research Council s A Framework for K 12 Science Education The National Research Council the National Science Teachers Association the American Association for the Advancement of Science and Achieve have partnered to create standards through a collaborative state led process The standards are rich in content and practice and arranged in a coherent manner across disciplines and grades to provide all students an internationally benchmarked science education The print version of Next Generation Science Standards complements the nextgenscience.org website and Provides an authoritative offline reference to the standards when creating lesson plans Arranged by grade level and by core discipline making information quick and easy to find Printed in full color with a lay flat spiral binding Allows for bookmarking highlighting and annotating **The Annual American Catalog, 1908** ,1909

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