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# Service Manual Ninja25

**S Marginson**

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web det ab det a det b if a is invertible then  $\det a^{-1} = (\det a)^{-1}$  solution problems let  $a = \begin{pmatrix} 8 & 1 & 6 & 3 & 5 & 7 & 4 & 9 & 2 \end{pmatrix}$  notice that a contains every integer from 1 to 9 and that the sums of each row column and diagonal of a are equal such a grid is sometimes called a magic square compute the determinant of a

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$$\begin{bmatrix} 2 & 2 & 0 & 1 & 1 & 0 & 1 & 1 & 0 & 3 \\ 1 & 1 & 3 & 0 & 1 & 1 & 1 & 1 & 1 & 1 \end{bmatrix}$$
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web evaluate the determinant of a  $2 \times 2$  matrix if a matrix has the same number of rows and columns we call it a square matrix each square matrix has a real number associated with it called its determinant to find the determinant of the square matrix  $\begin{vmatrix} a & b \\ c & d \end{vmatrix}$  we first write it as  $a \cdot d - b \cdot c$

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web so there are two quantities which can be found in a matrix minors and cofactors minors exist for each element of the matrix and are defined as the determinant of the matrix you get when you ignore the row and column of the element in question for example if my matrix is as follows  $\begin{vmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 \end{vmatrix}$

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