

Determinant of a 2 x 2 Matrix

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \longrightarrow \det(A) = |A| = \begin{vmatrix} a & b \\ c & d \end{vmatrix} = ad - bc$$

Determinant of a 3 x 3 Matrix

$$B = \begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix} \longrightarrow \det(B) = |B| = a \begin{vmatrix} e & f \\ h & i \end{vmatrix} - b \begin{vmatrix} d & f \\ g & i \end{vmatrix} + c \begin{vmatrix} d & e \\ g & h \end{vmatrix}$$

Determinants Matrices 3ed

Christian Drosten



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web coordinates of v the standard coordinates are (v_1, v_2) are the b_1, b_2 are assumed if no other basis is specified this means $v = v_1 b_1 + v_2 b_2$ if $\{v_1, v_2\}$ is a basis of \mathbb{R}^2 then the matrix S which contains the vectors v_k as column vectors is called the coordinate change matrix

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