

(iii) Let λ be a scalar. Then $\lambda|A|$ is obtained by multiplying any one row (or any column) of $|A|$ by λ .

$$A = \begin{vmatrix} a_1 & b_1 & c_1 \\ a_2 & b_2 & c_2 \\ a_3 & b_3 & c_3 \end{vmatrix} \quad \text{and} \quad \lambda A = \lambda \begin{vmatrix} a_1 & b_1 & c_1 \\ a_2 & b_2 & c_2 \\ a_3 & b_3 & c_3 \end{vmatrix} = \begin{vmatrix} \lambda a_1 & \lambda b_1 & \lambda c_1 \\ a_2 & b_2 & c_2 \\ a_3 & b_3 & c_3 \end{vmatrix}$$

(iv) $|\lambda A| = \lambda^n |A|$, when $A = [a_{ij}]_n$.

(v) A skew - symmetric matrix of odd order has determinant value zero.

(vi) If a determinant has all the elements zero in any row or column,

then its value is zero. i.e $D = \begin{vmatrix} 0 & 0 & 0 \\ a_2 & b_2 & c_2 \\ a_3 & b_3 & c_3 \end{vmatrix} = 0$

(vii) If a determinant has any two rows (or columns) identical (or proportional), then its value is zero.

i.e $D = \begin{vmatrix} a_1 & b_1 & c_1 \\ a_2 & b_2 & c_2 \\ a_3 & b_3 & c_3 \end{vmatrix} = 0$

Determinants Matrices 8ed

Sarah Kathryn Patch



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