

Unit three: Determinants and Matrices

Solution

First : By using the elements of first column

$$\Delta = \begin{vmatrix} 4 & 3 \\ -1 & 0 \end{vmatrix} + 5 \begin{vmatrix} 2 & -1 \\ 4 & 3 \end{vmatrix} = (0 + 3) + 5(6 + 4) = 53$$

Second: By using the elements of first row

$$\Delta = \begin{vmatrix} 4 & 3 \\ -1 & 0 \end{vmatrix} - 2 \begin{vmatrix} 0 & 3 \\ 5 & 0 \end{vmatrix} - \begin{vmatrix} 0 & 4 \\ 5 & -1 \end{vmatrix} = (0 + 3) - 2(0 - 15) - (0 - 20) = 3 + 30 + 20 = 53$$

Try to solve

- ② Find the value of the determinant $\begin{vmatrix} 2 & 3 & 1 \\ 3 & 1 & 2 \\ 1 & 2 & 3 \end{vmatrix}$ using the elements of the first row once and the elements of the second column once more.

Property (3)

The value of the determinant vanishes in each of the following two cases

First: if all the elements of any row (column) in any determinant equal zero, then the value of the determinant = 0

The value of the determinant $\begin{vmatrix} a_{11} & a_{21} & a_{31} \\ \text{zero} & \text{zero} & \text{zero} \\ a_{13} & a_{23} & a_{33} \end{vmatrix} = 0$

This can be proved by expanding the determinant using the elements of second row, then: $\Delta = 0$

Second: If the corresponding elements of any two rows (columns) in any determinant are equal, then the value of the determinant = zero

i.e. $\begin{vmatrix} c & b & c \\ c & b & c \\ x & y & z \end{vmatrix} = 0$

Since the corresponding elements of the first and second rows are equal (prove that).

Example

- ③ Without expanding the determinant, prove that $\begin{vmatrix} 1 & -5 & 8 \\ 3 & 7 & 9 \\ 1 & -5 & 8 \end{vmatrix} = 0$

Solution

In the determinant, we find $R_3 = R_1$ \therefore The value of the determinant = 0

Determinants Matrices 8ed

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