

Exercise 6.1

Q1

Write the minors and co-factors of each element of the first column of the following matrices and hence evaluate the determinant.

$$A = \begin{bmatrix} 5 & 20 \\ 0 & -1 \end{bmatrix}$$

Solution

Let M_{ij} and C_{ij} represents the minor and co-factor respectively of an element which is placed at the i^{th} row and j^{th} column.

Now,

$$M_{11} = -1$$

[In a 2×2 matrix, the minor is obtained for a particular element, by deleting that row and column where the element is present.]

$$M_{21} = 20$$

$$\begin{aligned} C_{11} &= (-1)^{1+1} \times M_{11} \\ &= (+1) \{-1\} \\ &= -1 \end{aligned}$$

$$[\therefore C_{ij} = (-1)^{i+j} \times M_{ij}]$$

$$\begin{aligned} C_{21} &= (-1)^{2+1} M_{21} \\ &= (-1)^2 \times 20 \\ &= -20 \end{aligned}$$

Also,

$$\begin{aligned} |A| &= 5 \{-1\} - \{0\} = \{20\} \\ &= -5 \end{aligned}$$

$$[\text{If } A = \begin{bmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{bmatrix} \text{ then } |A| = a_{11}a_{22} - a_{21}a_{12}]$$

Q2

Write the minors and co-factors of each element of the first column of the following matrices and hence evaluate the determinant.

$$A = \begin{bmatrix} -1 & 4 \\ 2 & 3 \end{bmatrix}$$

Solution

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