

5.Evaluate $\begin{vmatrix} x^2 - x + 1 & x - 1 \\ x + 1 & x + 1 \end{vmatrix}$. Solution:

$$\begin{vmatrix} We \ know \ that \\ x^2 - x + 1 & x - 1 \\ x + 1 & x + 1 \end{vmatrix} = (x + 1)(x^2 - x + 1) - (x - 1)(x + 1)$$
 On further calculation
$$= x^3 + 1 - (x^2 - 1)$$
 So we get
$$= x^3 + 1 - x^2 + 1$$

$$= x^3 - x^2 + 2$$

6.Evaluate
$$\begin{vmatrix} a+ib & c+id \\ -c+id & a-ib \end{vmatrix}$$
.
Solution:

$$\begin{vmatrix} We \ know \ that \\ a+ib & c+id \\ -c+id & a-ib \end{vmatrix} = (a+ib)(a-ib) - (c+id)(-c+id)$$
 It can be written as
$$= (a+ib)(a-ib) + (c+id)(c-id)$$
 So we get
$$= a^2 + b^2 + c^2 + d^2$$

7.If
$$\begin{vmatrix} 3x & 7 \\ -2 & 4 \end{vmatrix} = \begin{vmatrix} 8 & 7 \\ 6 & 4 \end{vmatrix}$$
, find the value of x. Solution:

Solution :

It is given that
$$\begin{vmatrix} 3x & 7 \\ -2 & 4 \end{vmatrix} = \begin{vmatrix} 8 & 7 \\ 6 & 4 \end{vmatrix}$$
We can write it as
$$4 \times 3x - 7 \times (-2) = 8 \times 4 - 7 \times 6$$
On further calculation
$$12x + 14 = 32 - 42$$
So we get
$$12x + 14 = -10$$

$$12x = -10 - 14 = -24$$
By division
$$x = -2$$

Rs Aggarwal Class 12 Determinants Solution

Christie M. Ballantyne

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