NCERT Solutions for Class 12 Maths Chapter 4 Determinants

Question 1:

Evaluate the determinant $\begin{vmatrix} 2 & 4 \\ -5 & -1 \end{vmatrix}$

Solution:

Let $|A| = \begin{vmatrix} 2 & 4 \\ -5 & -1 \end{vmatrix}$

Hence,

$$|A| = \begin{vmatrix} 2 & 4 \\ -5 & -1 \end{vmatrix}$$
$$= 2(-1) - 4(-5)$$
$$= -2 + 20$$
$$= 18$$

Question 2:

Evaluate the determinants:

(i) $\begin{vmatrix} \cos\theta & -\sin\theta \\ \sin\theta & \cos\theta \end{vmatrix}$

(ii) $\begin{vmatrix} x^2 - x + 1 & x - 1 \\ x + 1 & x + 1 \end{vmatrix}$

Solution:

(i)

$$\begin{vmatrix} \cos\theta & -\sin\theta \\ \sin\theta & \cos\theta \end{vmatrix} = (\cos\theta)(\cos\theta) - (-\sin\theta)(\sin\theta)$$
$$= \cos^2\theta + \sin^2\theta$$
$$= 1$$

(ii)

$$\begin{vmatrix} x^2 - x + 1 & x - 1 \\ x + 1 & x + 1 \end{vmatrix} = (x^2 - x + 1)(x + 1) - (x - 1)(x + 1)$$
$$= x^3 - x^2 + x + x^2 - x + 1 - (x^2 - 1)$$
$$= x^3 + 1 - x^2 + 1$$
$$= x^3 - x^2 + 2$$

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Bright Tutee

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