

Related Problem with solution :

Q)

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

Soln :

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

Hence,

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