If $\Delta = \begin{vmatrix} p & q & r \\ x & y & z \\ a & b & c \end{vmatrix}$ then :

Solution :

By property,

$a\,C_{11} + b\,C_{12} + c\,C_{13} = 0$

$p\,M_{11} - q\,M_{12} + r\,M_{13} = \Delta$

$a_{11}C_{21} + a_{12}C_{22} + a_{13}C_{23} = 0$

$a_{11}C_{11} + a_{12}C_{12} + a_{13}C_{13} = \Delta$

A $x\,M_{21} - y\,M_{22} + z\,M_{23} = \Delta$

B $a\,C_{11} + b\,C_{12} + c\,C_{13} = 0$

C $x\,C_{21} - y\,C_{22} + z\,C_{23} = \Delta$

D $p\,M_{11} - q\,M_{12} + r\,M_{13} = \Delta$

Return To Top