

1 Mark Questions

Q1) Find the value of determinants

i) $\begin{vmatrix} 5 & 3 \\ 7 & 9 \end{vmatrix}$

$\begin{vmatrix} 7 & 9 \\ 2 & 4 \end{vmatrix}$

ii) $\begin{vmatrix} -8 & -3 \\ 2 & 4 \end{vmatrix}$

$\begin{vmatrix} 2 & 4 \\ 5 & 3 \end{vmatrix}$

iii) $\begin{vmatrix} 5 & 3 \\ -7 & 0 \end{vmatrix}$

$\begin{vmatrix} -7 & 0 \\ 5 & -2 \end{vmatrix}$

iv) $\begin{vmatrix} 5 & -2 \\ -3 & 1 \end{vmatrix}$

$\begin{vmatrix} -3 & 1 \end{vmatrix}$

Q2)

i) If $Dx = 49$, $Dy = -63$, $D = 7 \rightarrow$ Find x and y

ii) If $Dx = -18$, $Dy = 12$, $D = -6 \rightarrow$ Find x and y

Q3)

i) If $15x + 17y = 21$ and $17x + 15y = 11 \rightarrow$ Find x and y

ii) If $49x - 57y = 172$ and $57x - 49y = 252 \rightarrow$ Find x and y

Q4) Find the values of a , b , c

1) $x^2 - 7x + 5 = 0$

2) $2m^2 = 5m - 5$

3) $y^2 = 7y$

4) $x^2 = 8$

Q5)

i) If $b^2 - 4ac = 8 \rightarrow$ Decide nature of roots of Q.E.

ii) If $b^2 - 4ac = -8 \rightarrow$ Decide nature of roots of Q.E.

Q6) If sum of roots is -7 and product is $5 \rightarrow$ Find Q.E.

Q7) Write formula of S_n and T_n

Q8) Find first term and common difference of A.P. $5, 1, -3, -7, \dots$

Q9) Decide whether given sequence is A.P. or not: $-10, -6, -2, 2, \dots$

Q10) If $A = 6$, $d = 3 \rightarrow$ Write A.P.