

Session 1 questions

Q1. Consider a quadrilateral ABCD with vertices A(1,0), B(3,2), C(1,3) and D(-1,2). Represent this information in matrix form.

Q2- If a matrix has 8 elements, what are the possible orders it can have?

Q3- Construct a 3×2 matrix whose elements are given by $a_{ij} = i + j$.

Q4- Find the values of x, y, z for which $\begin{bmatrix} 4 & 3 \\ x & 5 \end{bmatrix} = \begin{bmatrix} y & z \\ 1 & 5 \end{bmatrix}$.

Q5- Find $2A - B$ if $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & -1 & 3 \\ -1 & 0 & 2 \end{bmatrix}$.

Q6- Find AB if $A = \begin{bmatrix} 6 & 9 \\ 2 & 3 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & 6 & 0 \\ 7 & 9 & 8 \end{bmatrix}$.

Q7- Find $(AB)^T$ for matrices in Q6.