

1.2.9

EE24BTECH11001 - Aditya Tripathy

Question:

Find the vector joining the points **P** (2, 3, 0) and **Q** (-1, -2, -4) directed from **P** to **Q**.

Solution:

From (1.1.1.1), the direction vector of AB is defined as

$$\mathbf{m} = \mathbf{Q} - \mathbf{P} \quad (0.1)$$

The desired vector is

$$\begin{pmatrix} -1 \\ -2 \\ -4 \end{pmatrix} - \begin{pmatrix} 2 \\ 3 \\ 0 \end{pmatrix} = \begin{pmatrix} -3 \\ -5 \\ -4 \end{pmatrix} \quad (0.2)$$

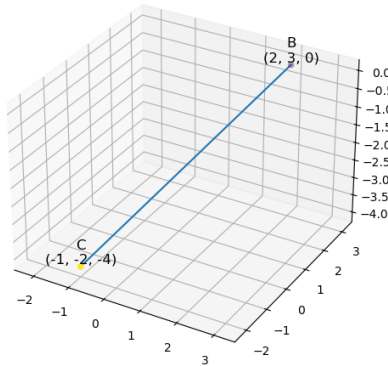


Fig. 0.1: Vector joining P and Q