

Coordinate Geometry

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10th Maths - Chapter 7

This is Problem 2 from Exercise 7.1

1. Find the distance between the following pairs of points.

ii)(0,0),(36, 15).

Solution: :

Given,

$$\mathbf{A} = \begin{pmatrix} 2 \\ 3 \end{pmatrix} \quad (1)$$

$$\mathbf{B} = \begin{pmatrix} 4 \\ 1 \end{pmatrix} \quad (2)$$

$$\mathbf{AB} = \begin{pmatrix} 2 \\ -2 \end{pmatrix} \quad (3)$$

$$\|AB\| = \sqrt{(2)^2 + (-2)^2} \quad (4)$$

$$\|AB\| = \sqrt{4 + 4} \quad (5)$$

$$\|AB\| = \sqrt{8} \quad (6)$$

$$\|AB\| = 2.82 \quad (7)$$

$$(8)$$

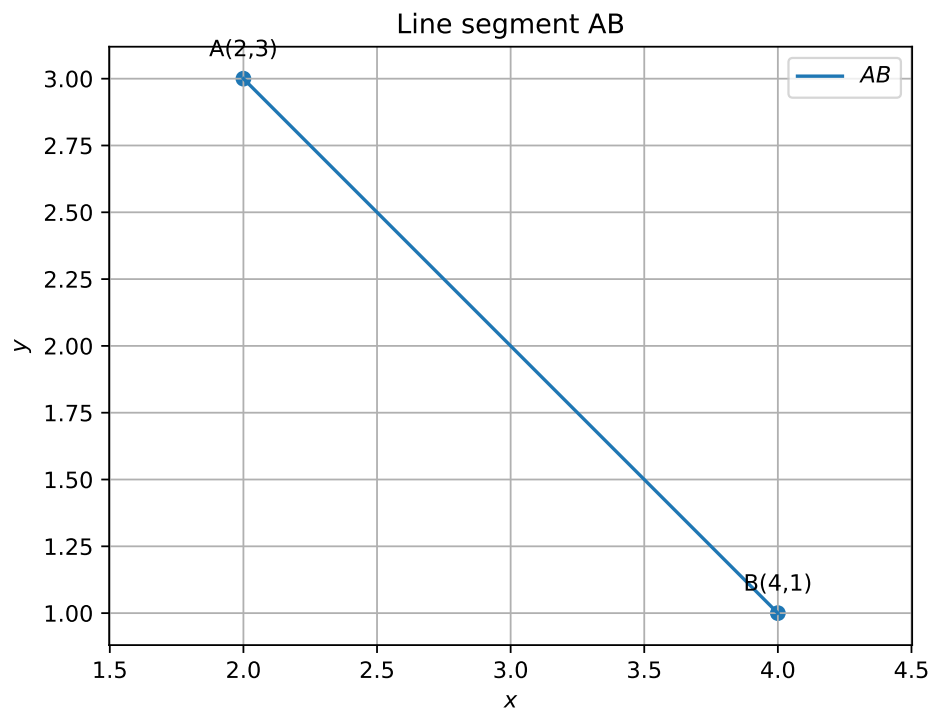


Figure 1: Line segment AB