

# Assignment 5

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Find Python Codes from below link

[https://github.com/AnilMondedla/Python/Assignment\\_5](https://github.com/AnilMondedla/Python/Assignment_5)

and latex-tikz codes from

[https://github.com/AnilMondedla/Python/Assignment\\_5](https://github.com/AnilMondedla/Python/Assignment_5)

## 1 EXAMPLES 1

### 1.1 Question 1

Find the distance between the following pairs of points

$$\begin{pmatrix} 2 \\ 3 \end{pmatrix}, \begin{pmatrix} 5 \\ 7 \end{pmatrix} \quad (1.1.1)$$

### 1.2 Solution

The distance between two vectors is given by

$$\|\mathbf{A} - \mathbf{B}\| \quad (1.2.1)$$

From (1.2.1),

$$\left\| \begin{pmatrix} 2 \\ 3 \end{pmatrix} - \begin{pmatrix} 5 \\ 7 \end{pmatrix} \right\| = 5.0$$

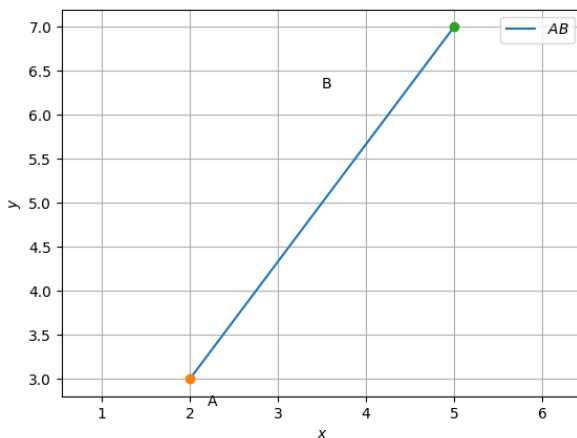


Fig. 0