Assignment 3

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1 QUESTION No.2.48

Draw a rectangle with adjacent sides 5 and 4

2 SOLUTION:

Let the vertices of Rectangle ABCD are

$$\mathbf{A} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}, \mathbf{B} = \begin{pmatrix} a \\ 0 \end{pmatrix}, \mathbf{C} = \begin{pmatrix} 0 \\ c \end{pmatrix}, \mathbf{D} = \begin{pmatrix} a \\ c \end{pmatrix} \qquad (2.0.1)$$

Here,a rectangle with adjacent sides $a = 5$ and $c = 4$
So, Coordinates of A,B,C and D are

$$\mathbf{A} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}, \mathbf{B} = \begin{pmatrix} 5 \\ 0 \end{pmatrix}, \mathbf{C} = \begin{pmatrix} 0 \\ 4 \end{pmatrix}, \mathbf{D} = \begin{pmatrix} 5 \\ 4 \end{pmatrix} \qquad (2.0.2)$$

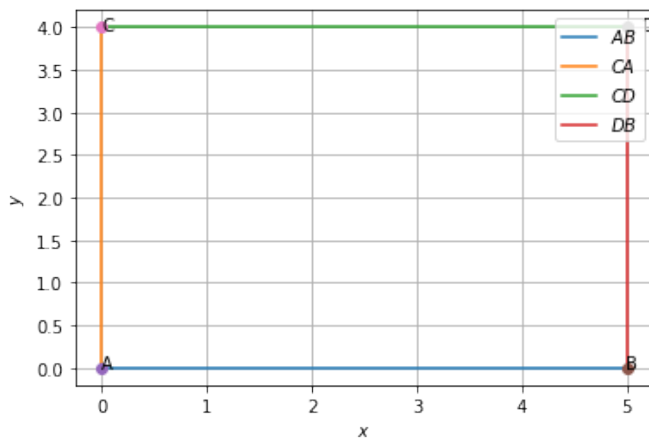Now, *ABCD* can be plotted using vertices *AB*,*CA*,*CD* and *DB* Plot the *ABCD* :

Fig. 2.1: *ABCD*