AI24BTECH11017-Maanya Sri

Question:

The coordinates of the three consecutive vertices of a parallelogram ABCD are A (1,3),B(-1,2), and C(2,5). Find the coordinates of the fourth vertex D. (10,2021) **Sol:**

Label	Coordinate
A	(1,3)
В	(-1,2)
С	(2,5)
D	(x,y)

TABLE 0: Variables Used

In a parallelogram,

$$A - B = D - C \tag{0.1}$$

$$x = 4, y = 6 (0.3)$$

$$D = \begin{pmatrix} 4 \\ 6 \end{pmatrix} \tag{0.4}$$

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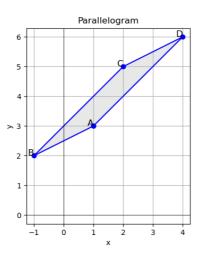


Fig. 0.1: parallelogram ABCD