

# 3.4.5

EE24BTECH11030 - J.KEDARANANDA

## Question:

Construct a rhombus whose side is of length 3.4 cm and one of its angles is  $45^\circ$ .

## Solution:

Variable	Parameter	Value
<i>Side</i>	a	3.4 cm
<i>Angle (1)</i>	$\angle A$	$45^\circ$
<i>Angle (2)</i>	$\angle B$	

TABLE 0

We have a rhombus with one angle  $\angle A$  given as  $45^\circ$ . Let the second angle be  $\angle B$ . The relationship between the angles in a rhombus can be expressed as:

$$\angle A + \angle B = 180^\circ \quad (0.1)$$

$$45^\circ + B = 180^\circ \quad (0.2)$$

$$\angle B = 180^\circ - 45^\circ \quad (0.3)$$

$$\angle B = 135^\circ \quad (0.4)$$

Thus, the second angle in the rhombus is  $\angle B = 135^\circ$ .

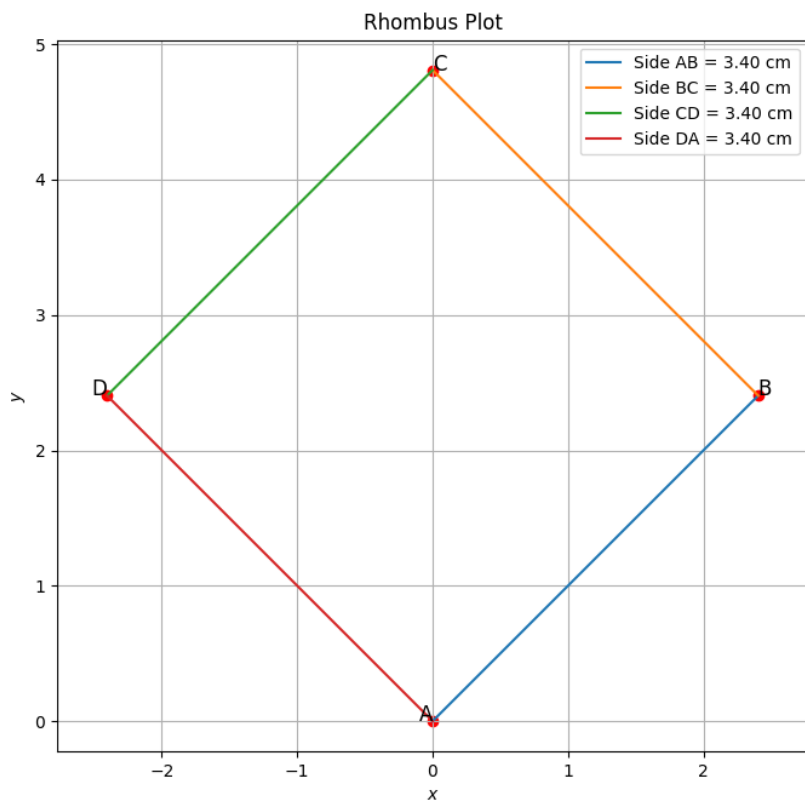


Fig. 0.1