# 3.4.6

AI25BTECH11037-stalin

**Question**:
Construct a rhombus whose diagonals are 4 cm and 6 cm in lengths.
**Solution:**
Let us solve the given equation theoretically and then verify the solution computationally
According to the question,
Given $D_1$=4 cm $D_2$=6 cm
Let centre be **O**

$$\mathbf{O} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \tag{0.1}$$

points be

$$\mathbf{A} = \begin{pmatrix} 2 \\ 0 \end{pmatrix} \mathbf{B} = \begin{pmatrix} 3 \\ 0 \end{pmatrix} \mathbf{C} = \begin{pmatrix} -2 \\ 0 \end{pmatrix} \mathbf{D} = \begin{pmatrix} -3 \\ 0 \end{pmatrix} \tag{0.2}$$