Problem 3.4.1

Draw a quadrilateral in the Cartesian plane, whose vertices are $A(-4,5)$, $B(0,7)$, $C(5,-5)$ and $D(-4,-2)$.

Solution

The position vectors of the vertices are

$$\mathbf{A} = \begin{pmatrix} -4 \\ 5 \end{pmatrix}, \tag{1}$$

$$\mathbf{B} = \begin{pmatrix} 0 \\ 7 \end{pmatrix}, \tag{2}$$

$$\mathbf{C} = \begin{pmatrix} 5 \\ -5 \end{pmatrix}, \tag{3}$$

$$\mathbf{D} = \begin{pmatrix} -4 \\ -2 \end{pmatrix}. \tag{4}$$

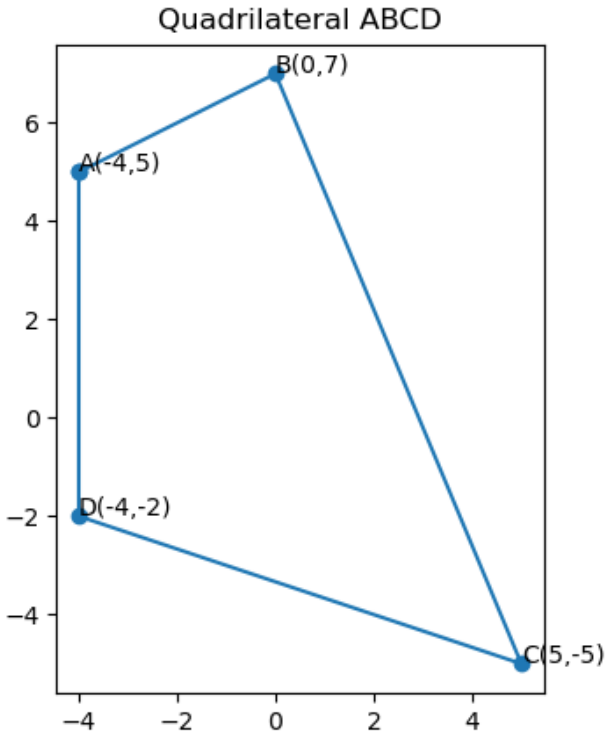

Figure 1