ASSIGNMENT-3

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1 QUESTION No-2.46 (CONSTRUCTION)

Draw a square READ with RE=5.1.

2 SOLUTION

Let the vertices of the square $READ$ be $\mathbf{R}$,$\mathbf{E}$,$\mathbf{A}$ and $\mathbf{D}$. We obtain the vertices of the square as follows

$$\mathbf{R} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}, \mathbf{E} = \begin{pmatrix} 5.1 \\ 0 \end{pmatrix}, \mathbf{A} = \begin{pmatrix} 5.1 \\ 5.1 \end{pmatrix}, \mathbf{D} = \begin{pmatrix} 0 \\ 5.1 \end{pmatrix} \quad (2.0.1)$$

We obtain the mid point as follows $\mathbf{O} = \frac{\mathbf{R+A}}{2}$ that is $\mathbf{O} = \begin{pmatrix} 2.55 \\ 2.55 \end{pmatrix}$

Plot of square $READ$

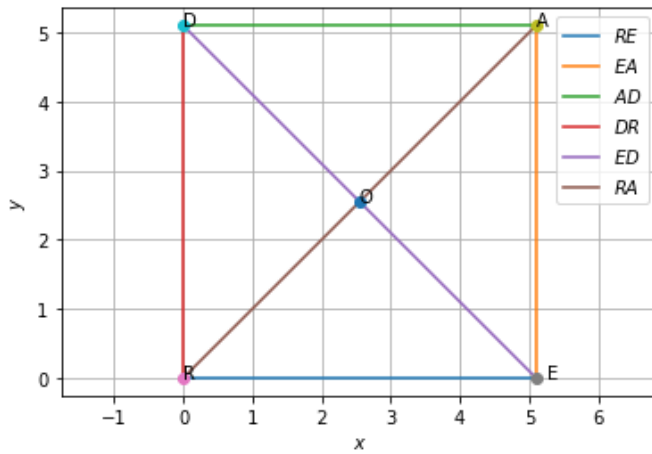Fig. 2.1: Square $READ$