Assignment-03

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Download all python codes from

and latex-tikz codes from

Question taken from

1 CONSTRUCTION EXERCISE 2.12

Draw rectangle OKAY with OK=7 and KA=5.
Solution

The vertices of rectangle OKAY are

$$\mathbf{O} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}, \mathbf{K} = \begin{pmatrix} a \\ 0 \end{pmatrix}, \mathbf{A} = \begin{pmatrix} 0 \\ c \end{pmatrix}, \mathbf{Y} = \begin{pmatrix} a \\ c \end{pmatrix} \quad (1.0.1)$$

$$\implies \mathbf{O} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}, \mathbf{K} = \begin{pmatrix} 7 \\ 0 \end{pmatrix}, \mathbf{A} = \begin{pmatrix} 0 \\ 5 \end{pmatrix}, \mathbf{Y} = \begin{pmatrix} 7 \\ 5 \end{pmatrix} \quad (1.0.2)$$
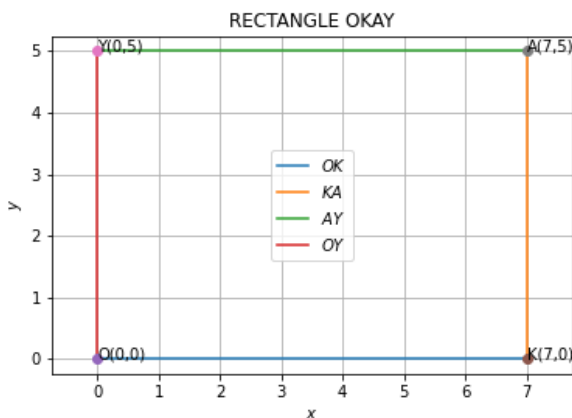
Where a=7,c=5.
In rectangle OKAY
OK=AY=7.
OY=KA=5.

Fig. 1.1: RECTANGLE OKAY