## Assignment-03

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Download all python codes from

https://github.com/suyogtangade/Assignment3.git

and latex-tikz codes from

https://github.com/suyogtangade/Assignment3.git

Question taken from

https://github.com/gadepall/ncert/blob/main/linalg/construction/gvv ncert constr.pdf Q.no.2.12

1 Construction Exercise 2.12

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

The vertices of rectangle OKAY are

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

$$\Longrightarrow \mathbf{O} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}, \mathbf{K} = \begin{pmatrix} 7 \\ 0 \end{pmatrix}, \mathbf{A} = \begin{pmatrix} 0 \\ 5 \end{pmatrix}, \mathbf{Y} = \begin{pmatrix} 7 \\ 5 \end{pmatrix}$$
 (1.0.2)

Where a=7,c=5.

In rectangle OKAY

OK=AY=7.

OY=KA=5.

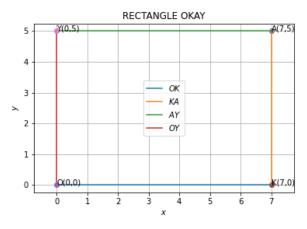


Fig. 1.1: RECTANGLE OKAY