

Assignment 3

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Download all python codes from

<https://github.com/ka-raja-babu/Matrix-Theory/tree/main/Assignment3/Codes>

and latex-tikz codes from

<https://github.com/ka-raja-babu/Matrix-Theory/tree/main/Assignment3>

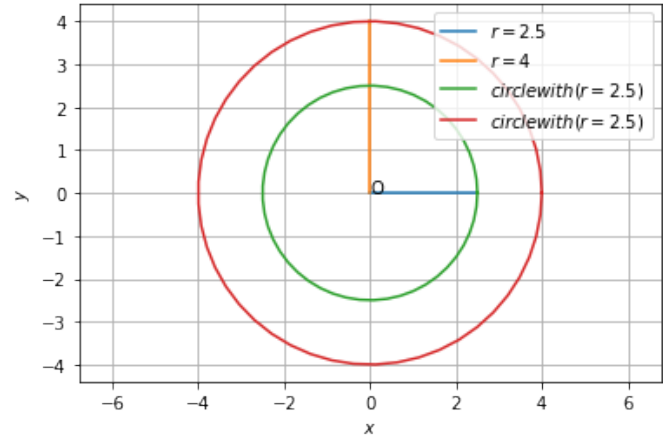


Fig. 2.1: Concentric circles with centre as origin and radii 2.5 and 4 respectively

1 QUESTION No. 52

With the same centre **O**, draw two circles of radii 2.5 and 4.

2 SOLUTION

All input values required to plot fig.2.1 are given in table 2.1 as shown below:

	Symbols	Circle1	Circle2
Centre	O	$\begin{pmatrix} 0 \\ 0 \end{pmatrix}$	$\begin{pmatrix} 0 \\ 0 \end{pmatrix}$
Radius	r_1, r_2	2.5	4
Polar coordinate	C_1, C_2	$2.5 \begin{pmatrix} \cos \theta \\ \sin \theta \end{pmatrix}$	$4 \begin{pmatrix} \cos \theta \\ \sin \theta \end{pmatrix}$
Angle	θ	0-2 π	0-2 π

TABLE 2.1: Input values

Fig. 2.1 is plotted using radii and polar coordinates with the angle ranging from 0 to 2π .