ENGINEERING MATHEMATICS-II SCILAB PRACTICAL ACADEMIC YEAR: 2020-21

NAME of EXERCISE: Curve Tracing

NAME: Ayush Jain SAP ID:60004200132 BRANCH: Computer DIV: J1 DATE:17-6-21

QUESTION: Trace the curve given by $r=a(1+\cos\theta)$

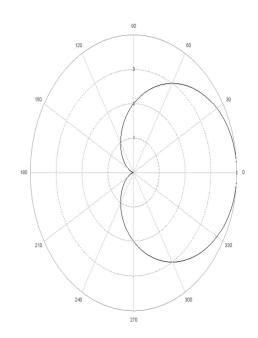
CODE:

theta=0:.01:2*%pi; //populate vector θ with values from 0 to 2π in steps of 0.01 a=2; // 'a'can be given different integer values.

r=a*(1+cos(theta));

polarplot(theta,r,leg="CARDIODE:-r=1+cos(theta)") // draw the graph in polar //coordinates of θ verses r

OUTPUT:

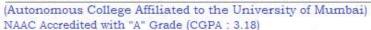


CARDIODE:-=1+cos(theta)



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