

LABORATORY WORK SHEET

Name of the Student :				Roll Number		
Class Bitcih CIE Semester.				1 7		
Course Code :	AMEDOS	Course Name	gineering Graphic			
Name of the C	ourse Faculty.			Faculty I	D :	
Exercise Number03						
DAY TO DAY	EVALUATION	: , , ,		A		
Marks	Aim / Preparation	Algorithm / Procedure	Source Code	Program Execution	Viva - Voce	Total
		Performance in the Lab	Calculations and Graphs	Results and Error Analysis		
Max. Marks	4	4	4	4	4	20
Obtained	4 , 1 ,	. + 3	,	4 1		

Signature of Faculty

START WRITING FROM HERE:

Ellipse

Aim: To construct an ellipse when the distance of the focus from the directix is equal to some and eccentricity is 2/3.

Apparatus: Laptop, mouse, Autocad.

Procedure:

- is Draw any vertical line AB as directrix.
- ii) At any point (on it, draw the axis perpendicular to the AB (directrix),
- iii) Mark a focus f on the axis such that CF = 50 mm.
- iv) Divide cf into 5 equal divisions (sum of numerator

and denominator of the eccentricity.)

- v) Mark the vertex U on the third division point from C thus, excenticity, $e = \frac{V^F}{VC} = \frac{2}{3}$.
- vi) A scale may now be constructed on the axis (as explained below), which will directly give the distances in the required ratio.
- vii) At V, draw a perpendicular ve equal to ve. Draw a line joining c and E. Thy, in triangle CVE.

$$\frac{vE}{vc} = \frac{vF}{vc} = \frac{z}{3}$$

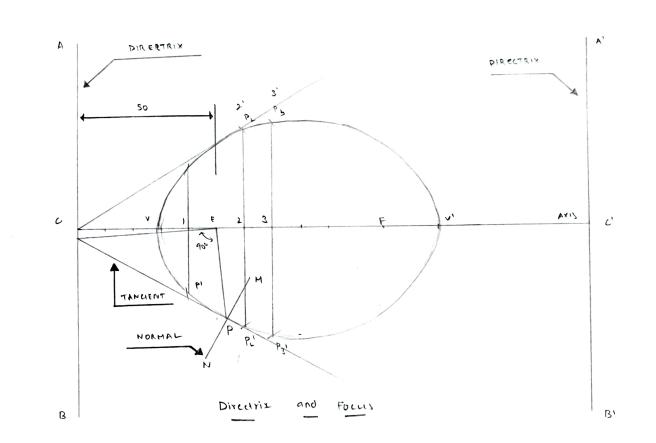
- viii) Mark any point 1 on the axis and through it, draw a perpendicular to meet be produced at 1.
- if) with center F and radius equal to 1-1, draw axes to intersect the perpendicular through 1 at points P, and P!.

 There are the points on the ellipse, because the distance of P1 from AB is equal to C1,

and
$$H' = \frac{VF}{VC} = \frac{2}{3}$$

Similarly, mark points 2,3 etc. on the axis and obtain points P_2 and P_2 etc.

x) Draw the ellipse through the points. It is a closed curve having two tool and two directrizes.



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