

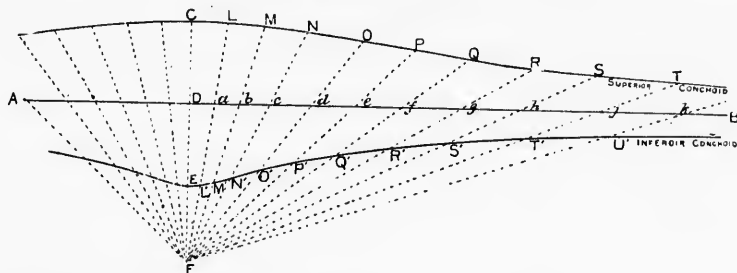
L CURVES.

directing circle.
the curve traced
circumference
into any number
side of **A** parts
e **F** cutting the
le in **a, b, c,**

a radius **H D.**
a, b, c, etc.,
ormer in **L, N,**
d form loops as

which **T U Y**

PROBLEM 83 —To DRAW THE CONCHOID CURVES OF WHICH THE STRAIGHT LINE **A B** IS THE ASYMPTOTE, **C D** THE DIAMETER, AND **F** THE POLE.



The line **F C** is perpendicular to **A B**.

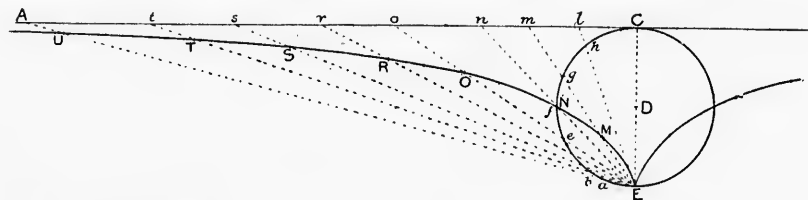
On each side of **D** mark any points **a, b, c, etc.**, and from **F** draw straight lines through these points.

Make **D E** equal to **C D**, and from the points **a, b, c, etc.**, measure lengths **a L, b M, etc., a L', b M', etc.**, each equal to **C D**.

The points **C, L, M,** are in the **superior Conchoid**, and **E, L', M', etc.** in the **inferior Conchoid**.

A freehand curve is to be drawn through the points.

PROBLEM 84.—To DRAW THE CISSOID CURVE FROM THE GIVEN CIRCLE, **E C**.



At **C** draw the tangent line **A C**.

From **E**, the opposite extremity of the diameter through the point **C**, draw any lines meeting the straight line **A C** in the points **l, m, n, etc.**, and cutting the circle in **h, g, f, etc.**

Make **A U** equal to **a E**, **t T** equal to **b E**, etc.; **o O** equal to **e E**, **n N** equal to **f E**, etc.

The points **U** and **T, O** and **N** are in the required curve.

Obtain the points **S, R,** and **M,** in a similar manner and draw the curve freehand.