Geometrical definition of ellipse. -.

-22 March -

Def. An ellipse is the locus of all points in the plane such that the num of disknoer. from these points to two fixed perints

F1, F2 is equal to a given constant.

|F1, F2 | 22 c | 29 > 2 c.

Ellipse = $\{K: |KF_1| + |KF_2| = 2a\}$ (if C=0 ellipse — circle). F_1 , F_2 — foci of ellipse

Geom. definition Lecture CI - 23 March Hyperbola Hyperbola - locus of all points on the plane such that difference of distances between there point and two fixed points Fi, F2 is equal to a given constant. |F,F2|=20 [|KF1|-|KF1| < |F,F2) F_1 K_2 CHyperbola = {K: |KF1- |KF2| = 29} F1, F2 - foci of Hyperbola

Lechere CI

23 March

Parabola

Procus

Focus

directrix

Parabola is the locus of all points on the plane which are on the same distance from given points F1 and given line l

f, - focus, l-directrix.