BA SANGAM COLLEGE

YEAR 11

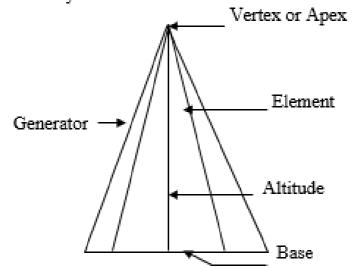
TECHNICAL DRAWING

WORKSHEET 5

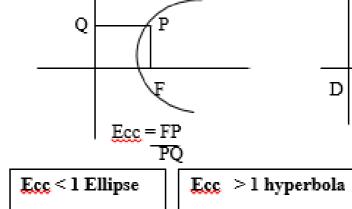
(Attempt the questions at the back of your exercise book)

CONICS

Conics - is that part of geometry that deals with the cone and the several curves formed by truncation of it.



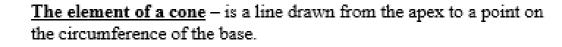
- AA Triangle formed when a cutting plane cuts along the axis. **BB** - **Circle** - formed when the cone is cut at right angles to the axis. CC - Parabola - formed when a right cone is cut by a cutting plane parallel to a generator of a cone. DD - Hyperbola - formed when a right cone is cut by a plane which of a cone makes.
- formed when a right cone is cut by a plane which EE - Ellipse goes right through a cone; in other words, it cuts through every generator.
- Eccentricity point on the curve and the directrix to the same point on the curve.



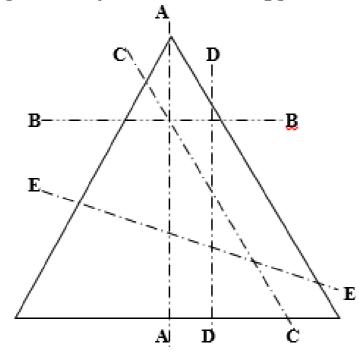
Example: VF = 12 and VD = 10.

Ecc = VF = 12 = 1.2VD 10 1.2 > 1 therefore curve will be a hyperbola.

Focal sphere - is a sphere dropped into a cone that is also tangential to the cutting plane in question.



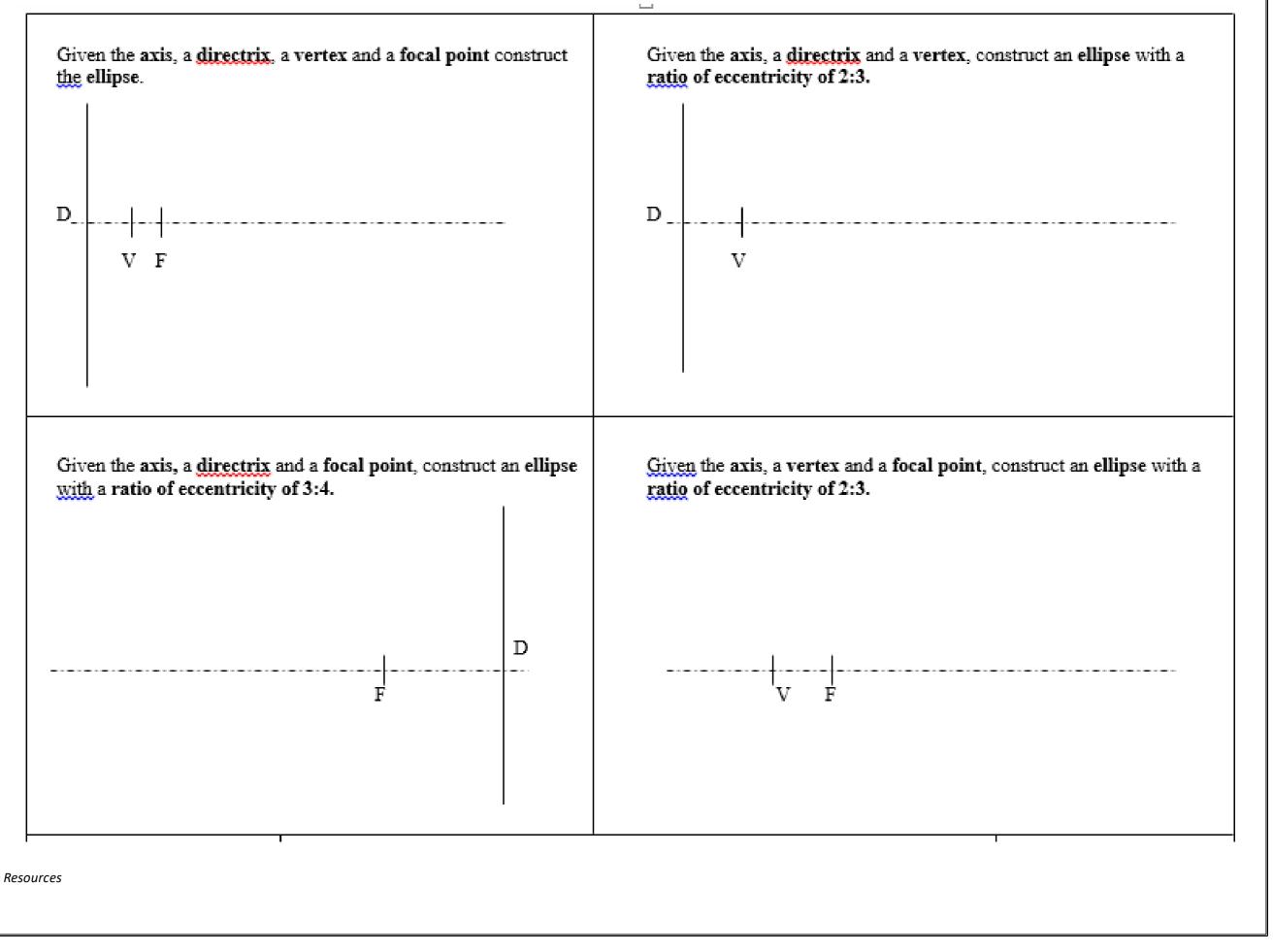
Conic sections produced by the different cutting planes.



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makes a greater angle with the base than a generator

is the ratio of the distances from the focus to a



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