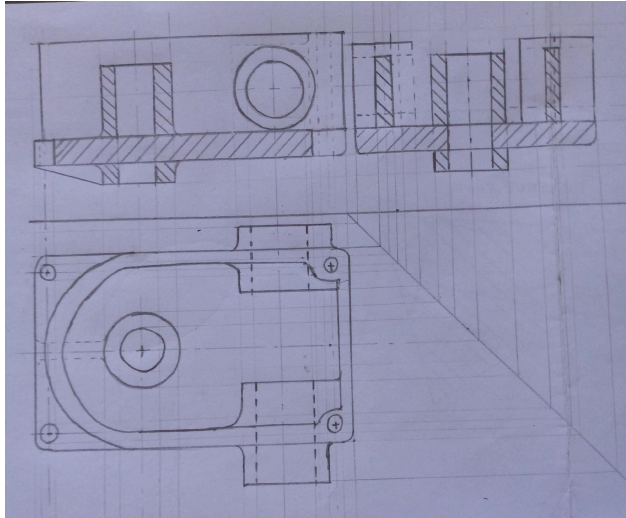


MECHANICAL DRAUGHTING 2003 - NECTA FORM FOUR

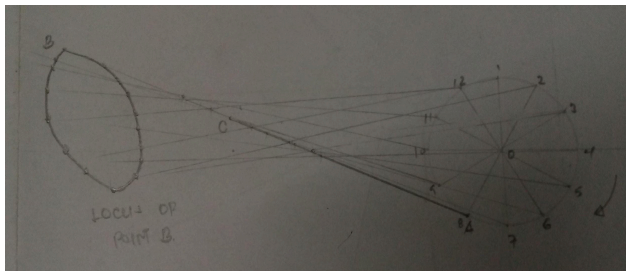
Solutions from: [Maktaba by TETEA](https://maktaba.tetea.org)

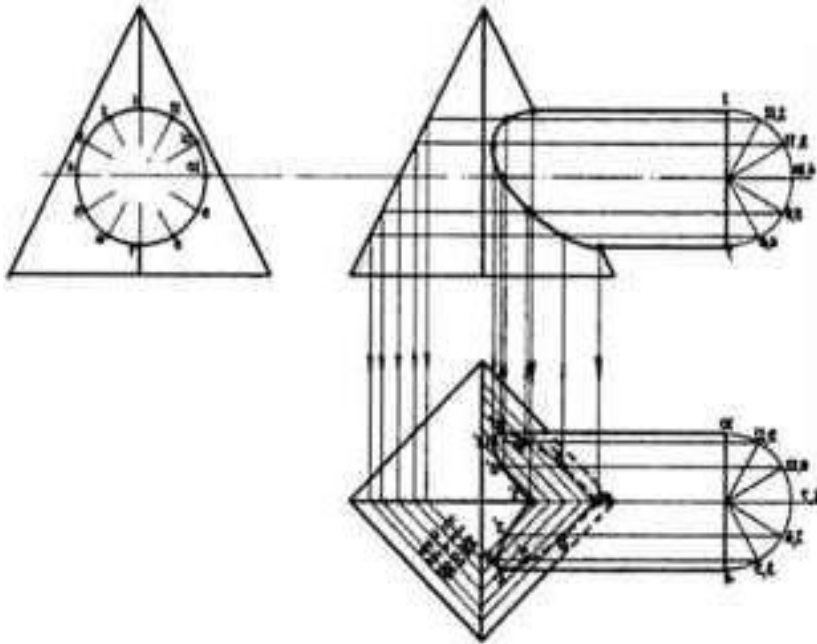
By Yohana Lazaro

1.



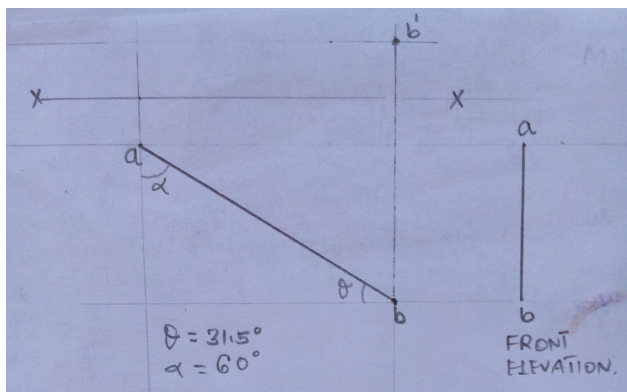
2. locus of a point.





3.

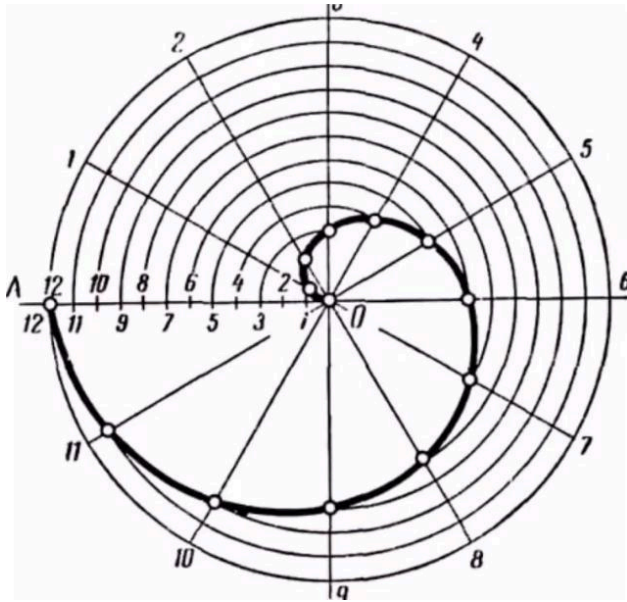
4.



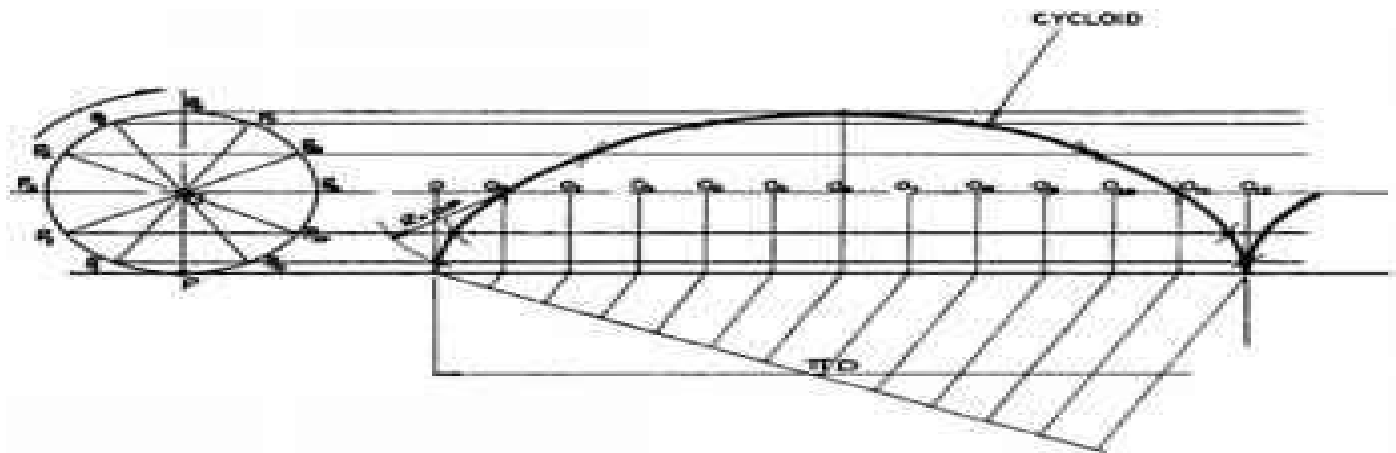
5.(a)-locus is the path traced by a moving particle.

-parabola is the locus of a point which moves such that its distance from a fixed line equals to distance from a fixed point(focus)

-Archimedial spiral is the locus of a point which moves around a center at a uniform angular velocity and also at the same time moves away from the center at uniform linear velocity.

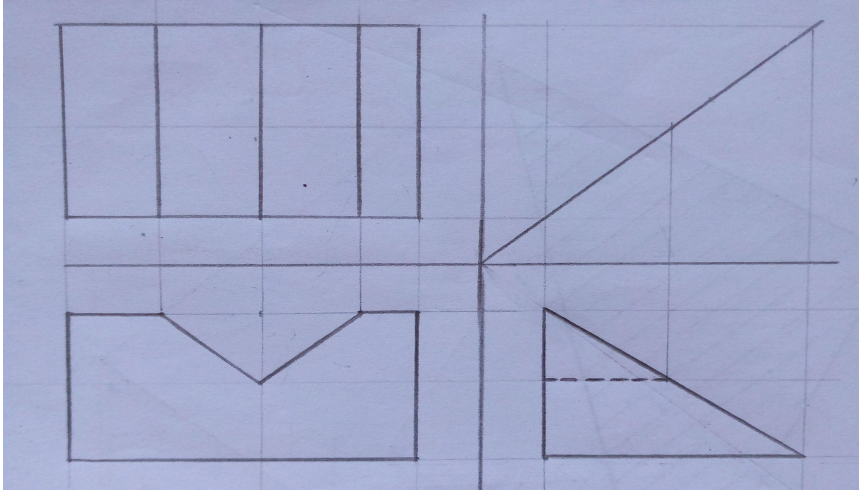


-Cycloid is the curve traced by a point on a circle as it rolls along a straight line without slipping.



(c) Advantage of half section is that it shows both inside and outside configuration.

6.(a)



(b) Advantage of washers.

- prevents surface from damage during installation.
- they distribute the pressure and prevent the fasterers from moving or corroding.
- protect the risk of loosing due to embedment.

(c) Washers types.

