4 Sections Of Solids

Section:
The swiface obtained by cutting an object by section plane is called "Section".

Sectionings

The #12maginary process of cutting in called sectioning.

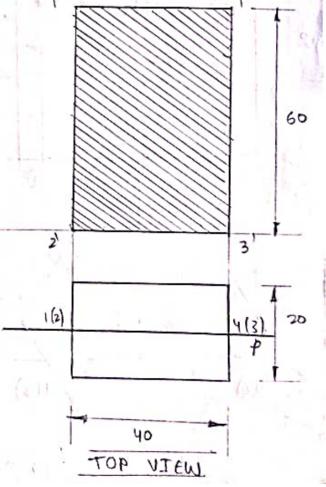
Typer of section planers

- (8) Section Plane (SP), people udicular to HP and posselled to VP.
- (b) sp people ndicular to UP and parallel to HP.
- CED SP people ndicular to VP and inclined to HP.
- (R) SP pearpendicular to HP and inclined to Up.
- (v) sp andined to both HP and Up.

SP I to the and I to the

SECTIONAL FRONT VIEW

O A spectangular posism, side of base your x 25 mm and height for base on HP, such that one of its larger such that one of its larger rectangular faces is parallel to VP. A section plane I to HP and II to VP cuts the posism into a equal halfs. Draw its top views and sectional front views.



D. A Hergonal prism side of base 30mm and axis 60mm long rest with its base on HP. such that one of its rectaryular faces on pagallel to VP. A section plane 1 to HP and pagallel to VP. (uts the prism at a distormation of 10mm from its axes. Defaulter to Views and sectional front views.

3. A pentagonal pyramid of base 35mm and axis 6. Long, next with 9th base on HP. such that one of the edges of the base is I to UP. A section plane I to and panallel to UP cuts the pyramid at a distance of som the corner of the base neared to the observer.

SECTIONAL FRONT VIEW SECTIONAL FRONT VIEW 1100 / 1 10 VIE tornel brilly ç - 91101 19 XEY X -4 1 8 (2) (4) 0 1+ 6 0 n min 19 10 10 10 Trumity of a WING G today Bene 700 70 4(3) 1(2) TOP VIEW TOPVIEW 35

10. SP Lto your and I to the of it is the great it is a. A pentagonal pyramid, side of base 30mm and axis 60mm long i rest with its base on HP and one of the edges of its base 95 I to UP. It is cut by a sectional plane, I to UP and Il to HP. and passing through the arm at a point . 35mm above the base. Donaw its front view and sectional to (5) A cone with base 4. 60 norm diametra and axes 75 long es nesting on 9th base on HP. It is cut by a Jection plane pagallel to HP and passing though the mid point of the ands. Delan the brojections of the cut solld. the state of the first of FRONT VIEW FRONT VIEW TIME TO 30 30 59 . 1 9pt 1 9RT 600 0 0104 895 1 20 1011 300 10 = with same? del SECTIONAL TOP VIEW TOP VIEW SECTIONAL

SP tate UP and Inclined to HP = 1 mg 1 dd

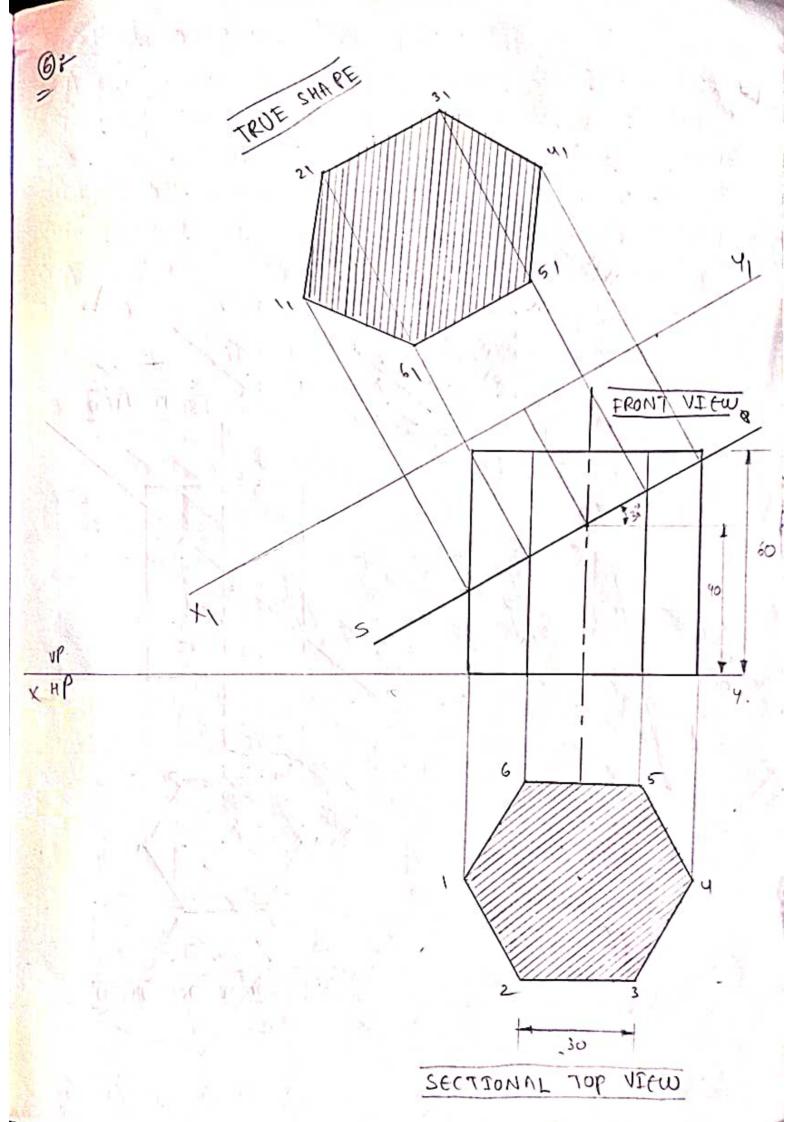
6. A heragonal paism of side 30 mm and axis 60 mm long, and the base lying on the garrand. It is cut by a hospizontal section plane inclined so to HP and cutting the axis at a point Homm above the ground Dana front view, sectional top view and True shape of the section.

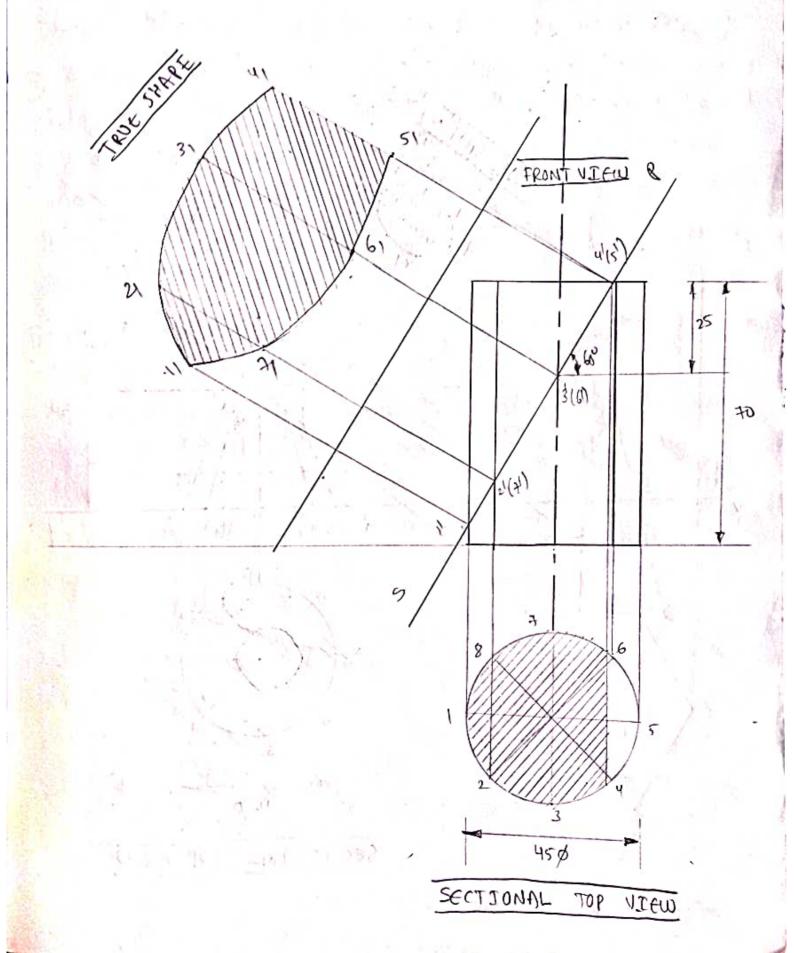
D. A hexagonal poision edge of base 20mm and axis 50mm long next with its base on the HP. It is cut by a place I to the UP and inclined at 40° to the HP. The cutiling plane meets the axis at 20mm from the ventex. Draw the sectional top view and the true shape of the section.

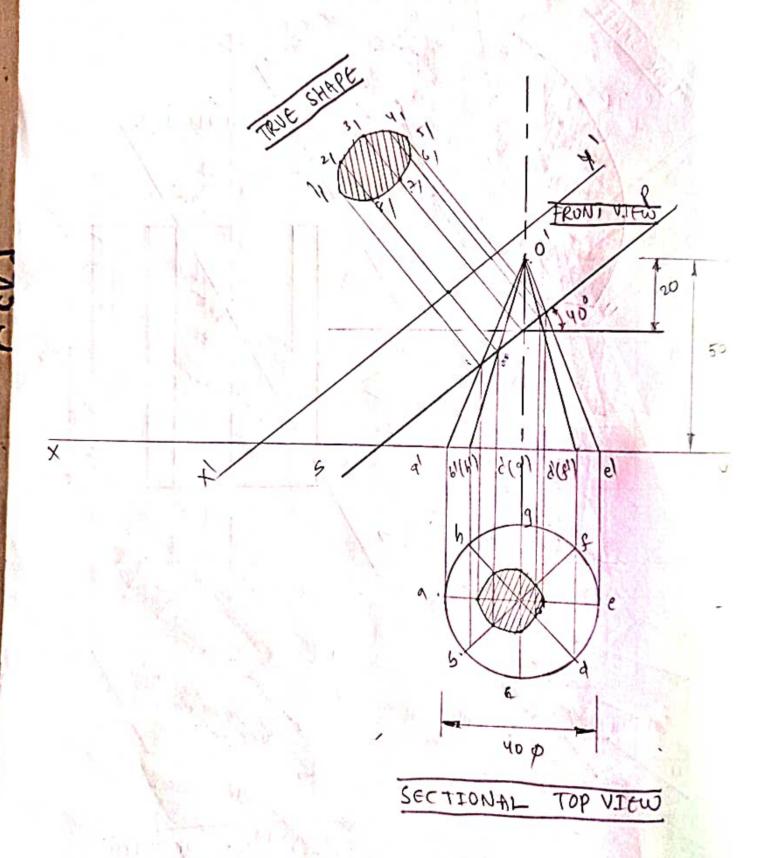
(8) A cylindes of 45mm diameter and height form long is resting on its base on HP. It is cut by sectional plane, I to the VP, inclined at 60 with HP and passing through a point on the axis 25mm from one end. Denow its front view, sectional top view and true shape of section.

(9). A cone of base diameter 40mm and height exp 50mm sest on its base on HP. It is cut by a plane I to be up and Inclined at 40 to the HP. The cutting plane meets the anis at 20mm from the vertex. Deaw the sectional top view and true shape of the section.

antique united

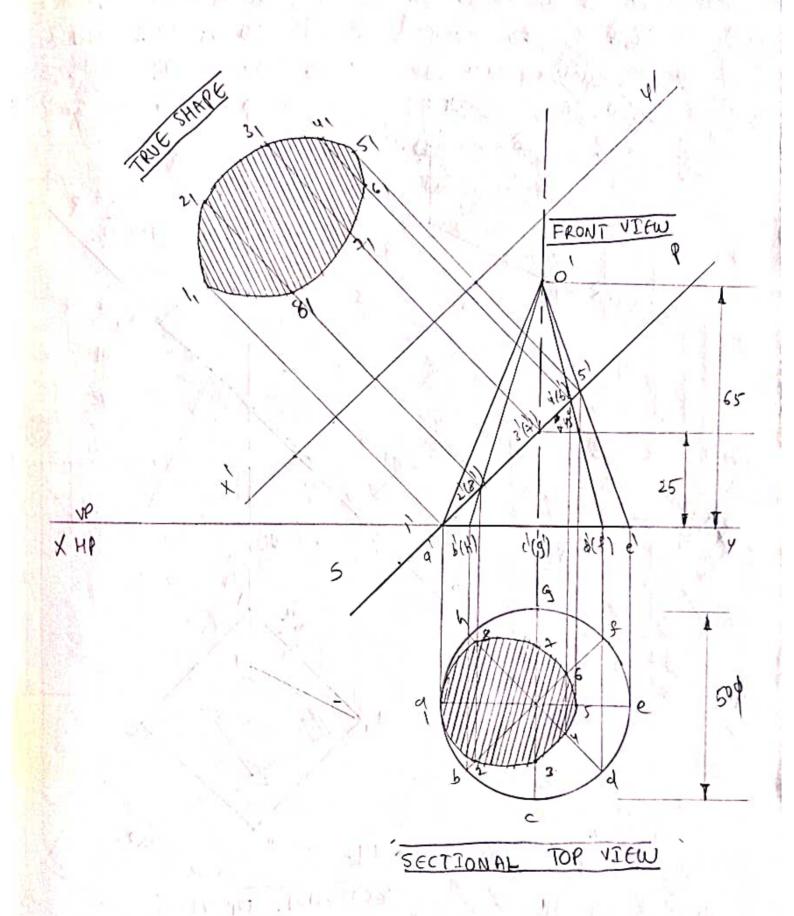


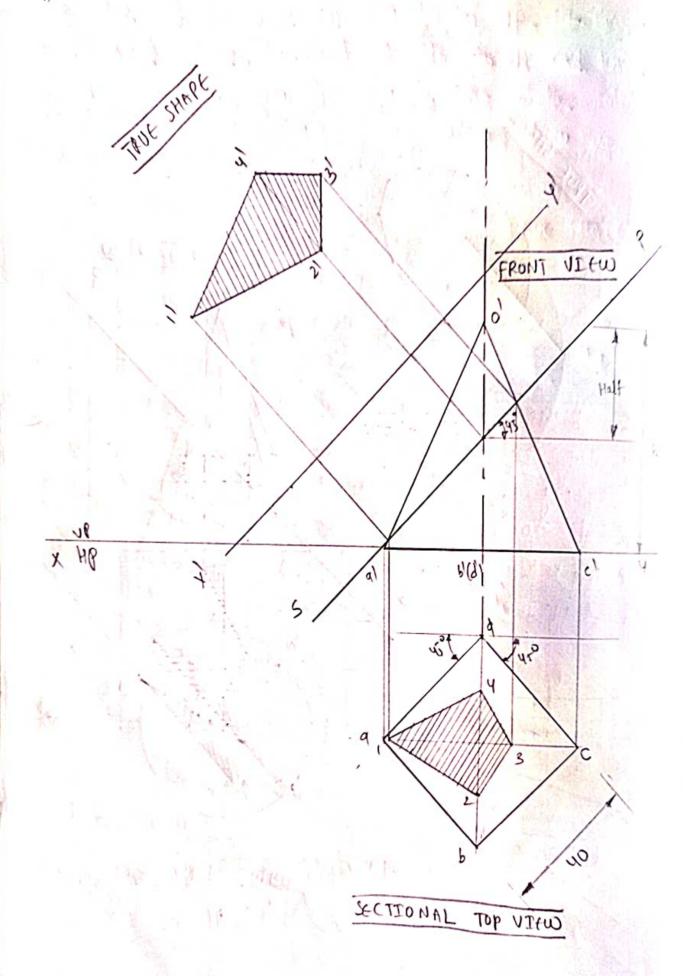




- D.A core of bose 35mm drameter room axis and the base lying on the ground. It is cut by a honizontal section plane inclined 40 to the 11P and cutiling the axis at a point homm above the ground. Donato doort view and sectional top view and take shope.
- on A cone of bosc 30 mm diameters and axis 65mm long spest with 9th busco on 11p. It is cut by a section plane I to up and inclined at 45° to 11P and passing thorough a point 25mm above the base. Draw the sectional top view and true shape of the section.
- DA square pyramed, base yomm side and axis 60mm. long has the base on the HP and all the edges of the base egaply in clined to UP. It is cut by a sectional plane I to UP, inclined at 45° to the HP. and bisecting the axis. Dayaw its sectional top view and trave shape of the section.

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section alone L to HP and inclined to VPF

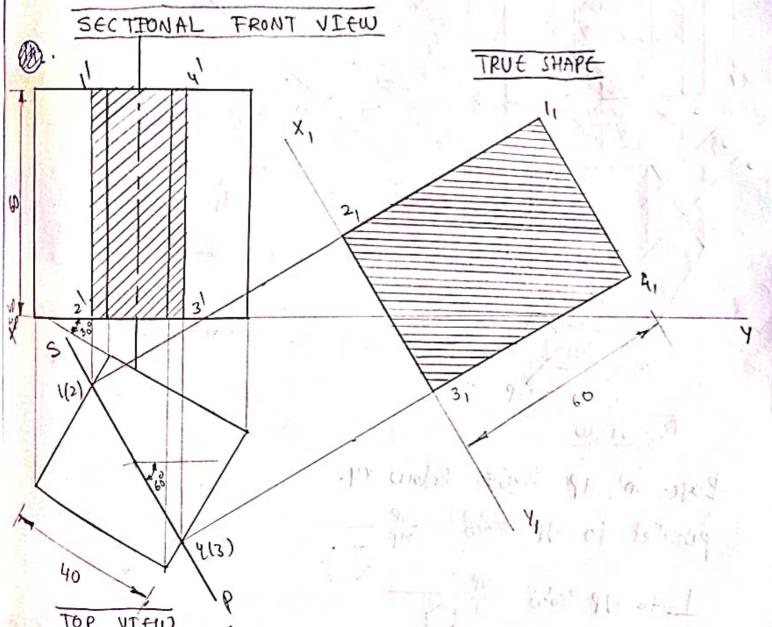
3. A square prism, olde of base romm and 60mm long, nests with its base on HP such that one of its rectionally faces in inclined at 30 to UP. A section plane I to HP and inclined at 60 to UP passess through the parism such that a rectangular face which is making 60 with up is cut in to two halves. Days the top view, sectional front view and true shape of the section.

HP related way Above XY

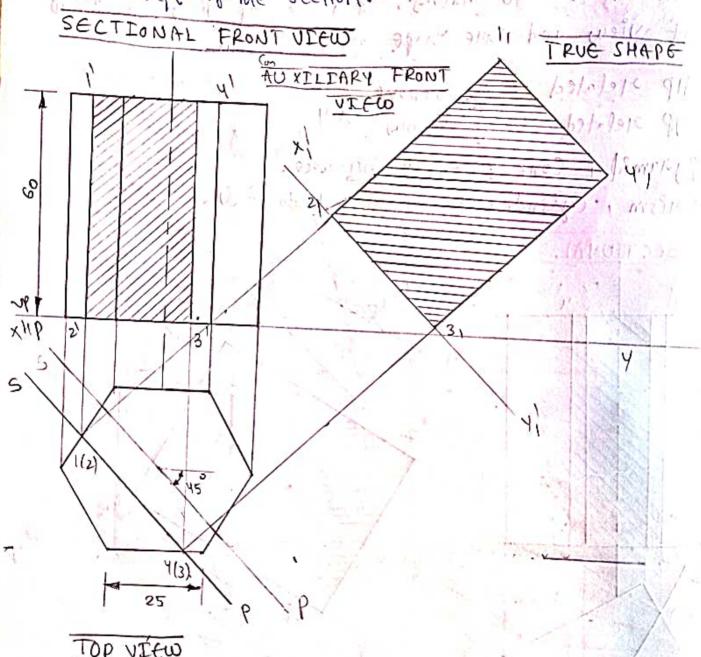
UP related way Below XY

Pyramid (Cone & points no. 2 ano).

Perism, Cylindery & points & 3580 380.



(1). A heragonal poism of side of base 25mm and and 60 mm long es nesting on its base on HP such that an edge of the base in parallel to up. It is not by a sectional plane, inclined at 45° to up and lomm from the axis. Draw the projections of the solids. Also, Obtain an auxiliary sont view i show Pry The torve shape of the section.



TOP VIEW

Bage on HP Looks' Below XY. payalled to UP wold

T to ND EDOPS THE

B. A Hexagonal pyonomid ride of best 25mm and and 55mm long onests with its base on Hp such that one of the edges of this base in possible to up. It is cut by a section plane. It to HP and inclined at 45° to up and passing through the pyramid at a distance of lomm from the axis. Draw the sectional front view and Tome shape of the section.

SCCTIONAL FRONT VIEW 61 55 vř 16(+1) € (e) TOP VI tW

(b) A Hexagonal perism 15mm of side of base and height 60mm rests with one of its rectargular facer on the ground and axis beeing parallel to HP. It is come by a section plane perspendicular to HP and inclined at 30 to UP and passing through a point on the axis 15mm from one of its ends. December the section.

