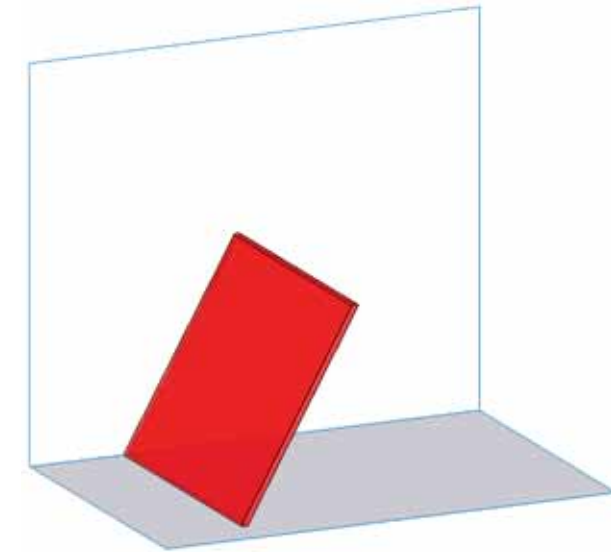
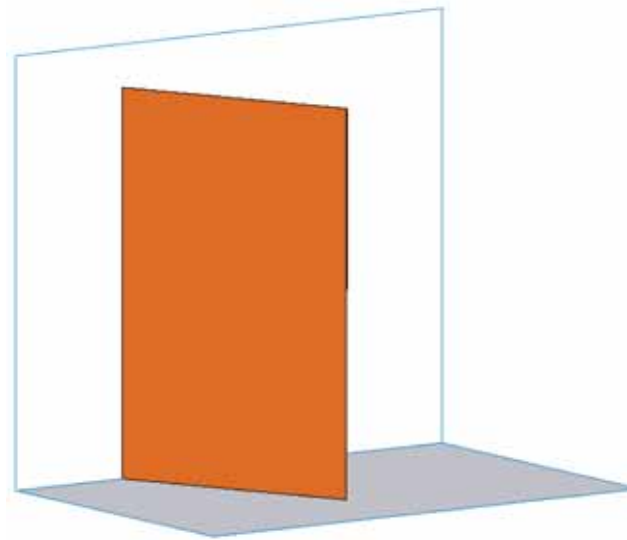
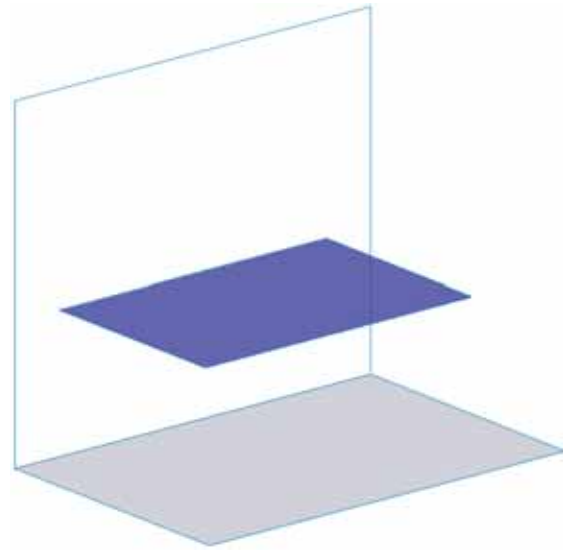


Pictorial views of three planes are shown. In the spaces provided below draw the line of intersection of these planes with the planes of reference (traces of the planes).



V.P.
H.P.

V.P.
H.P.

V.P.
H.P.



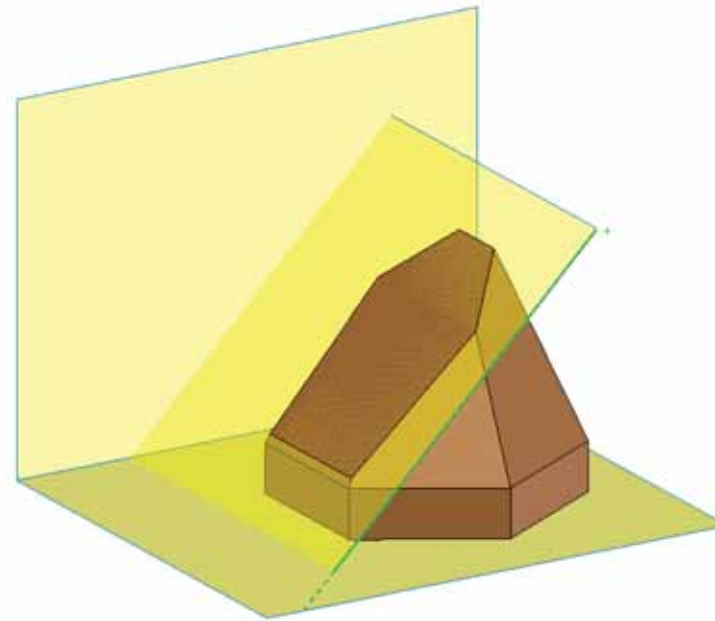
TECHNOLOGY DESIGN & COMMUNICATION GRAPHICS
 SUBJECTS SUPPORT SERVICE
OBLIQUE PLANES 1

NAME: _____ DATE: _____



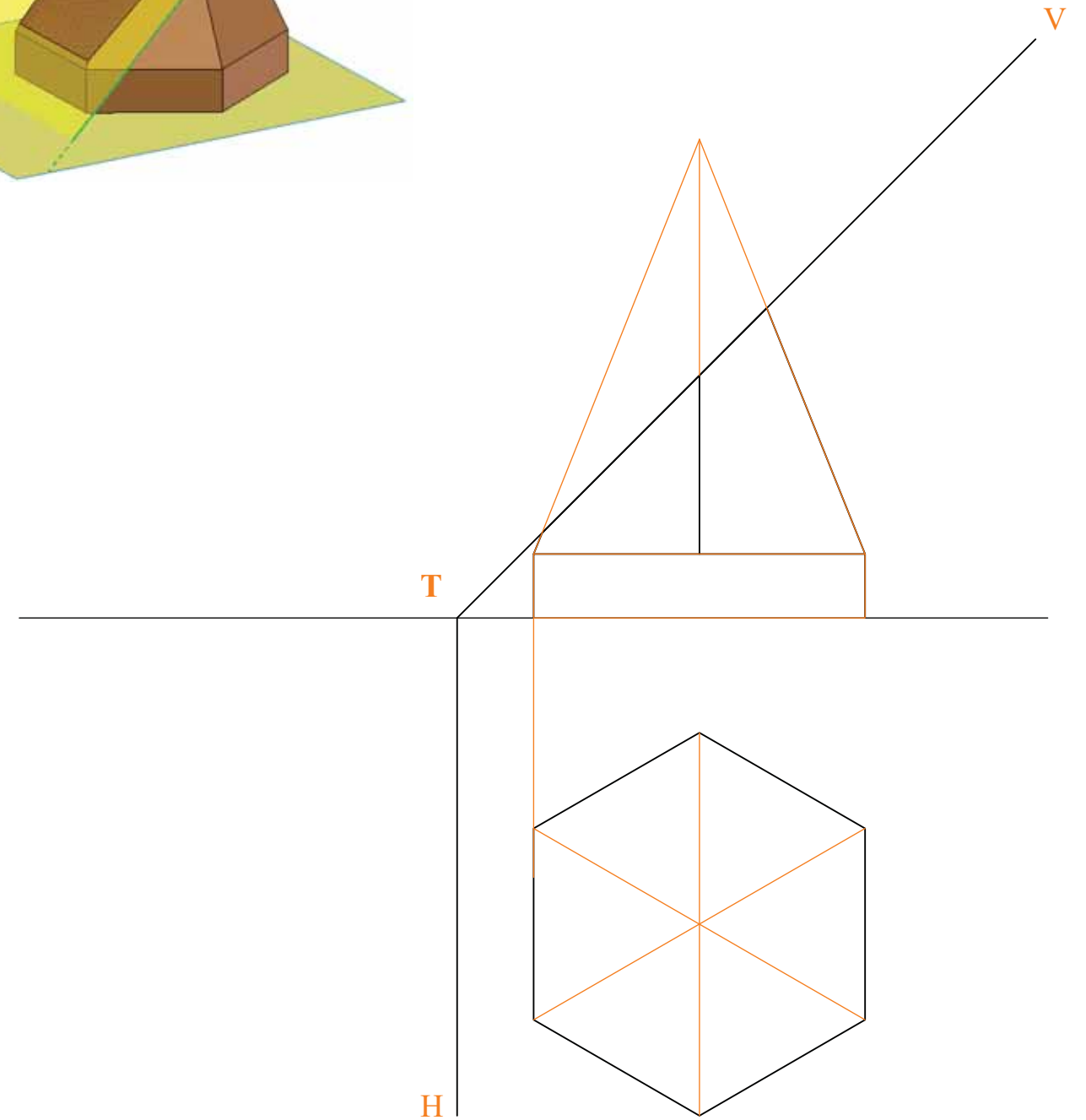
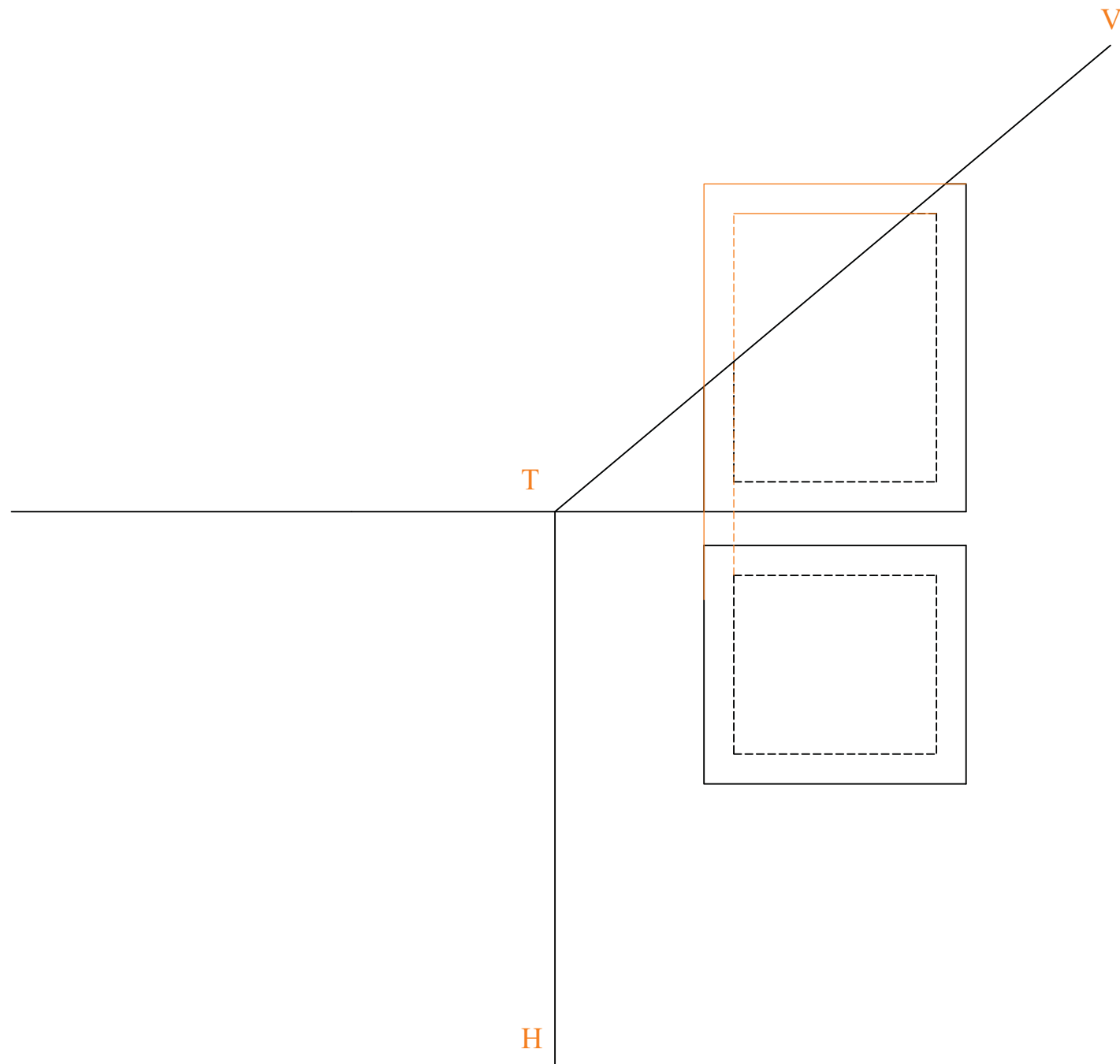
A box cut by a simply inclined plane is shown.

- (a) Complete the plan of the box.
- (b) Determine the true shape of the opening.



A hexagonal based pyramid is cut by a simply inclined plane as shown.

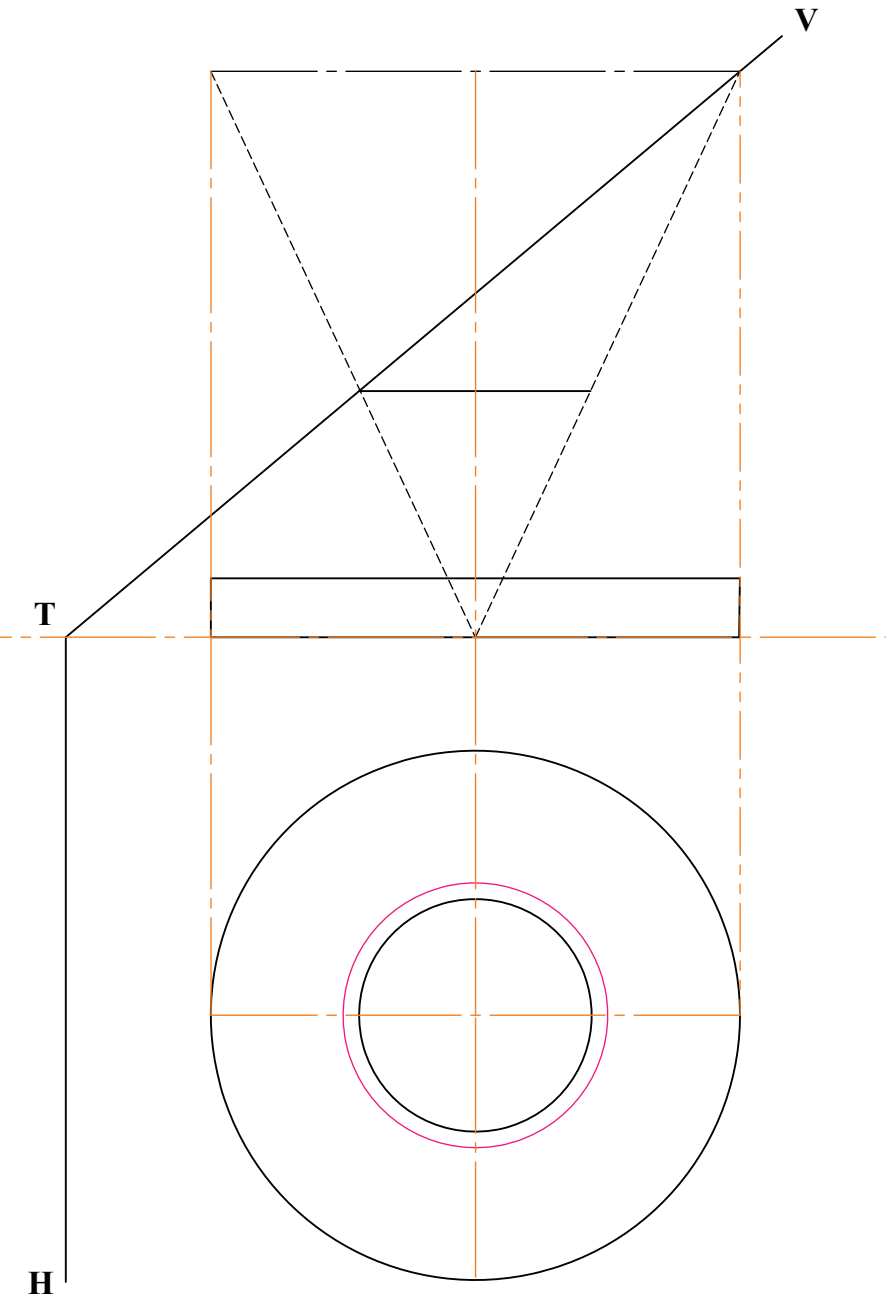
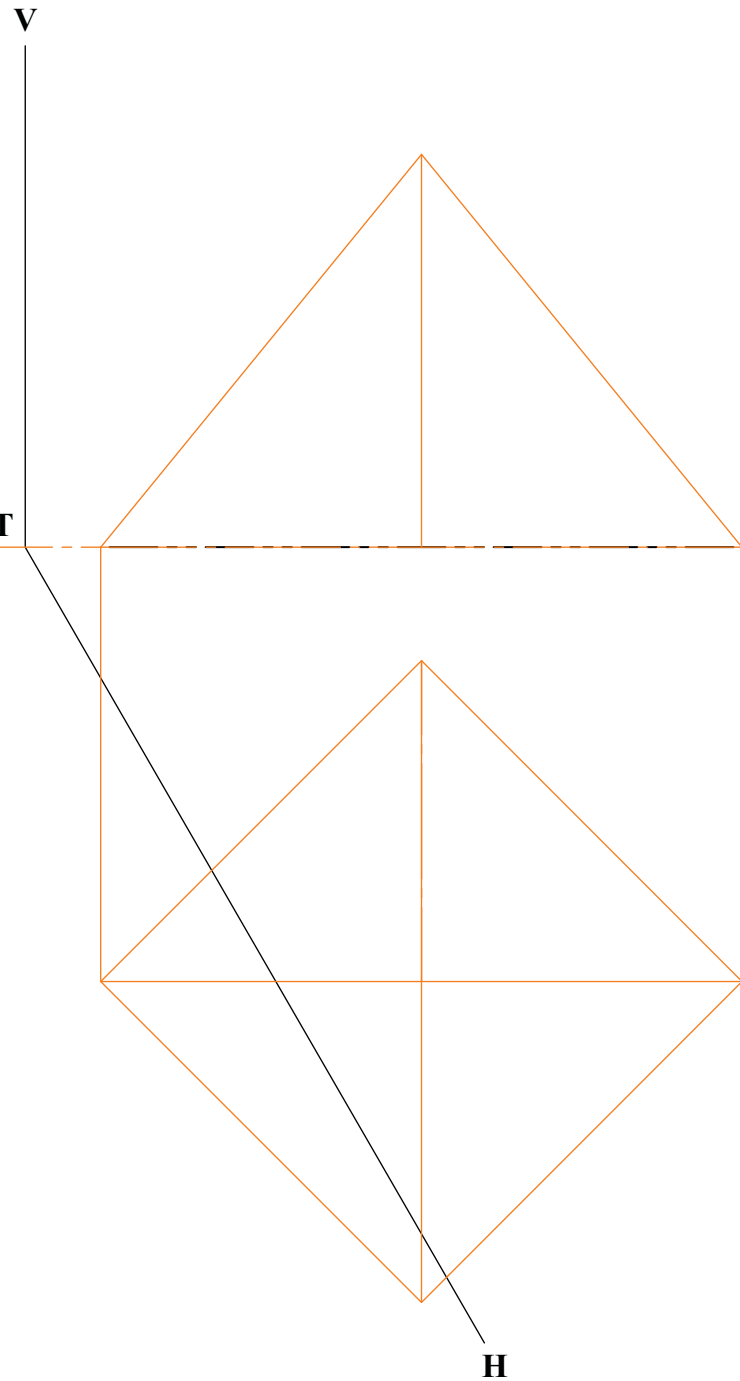
- (a) Complete the plan of the cut surface.
- (b) Determine the true shape of the cut surface.



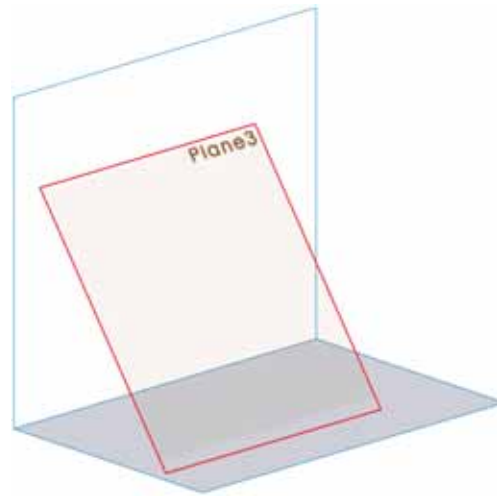
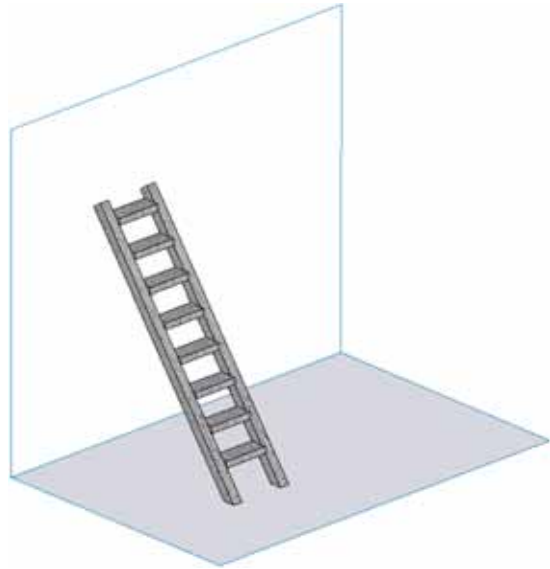


A pyramid is cut by a simply inclined plane as shown.
Complete the elevation and show the true shape of the cut section.

A cone cut by a simply inclined plane is used to design the seat shown.
Complete the plan and show the true shape of the cut section.

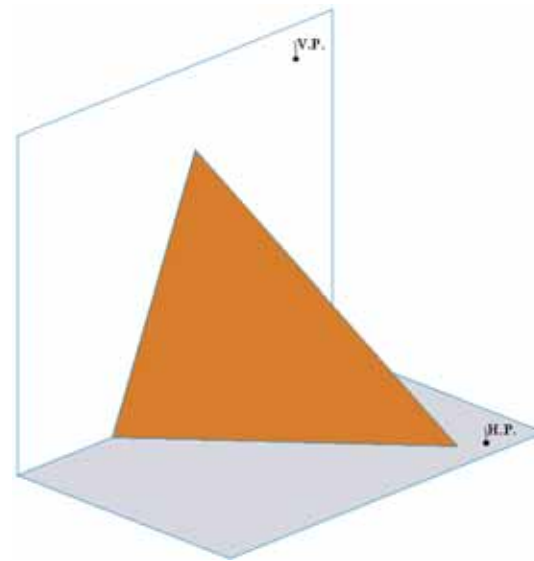


1



	V.P.
	H.P.

2



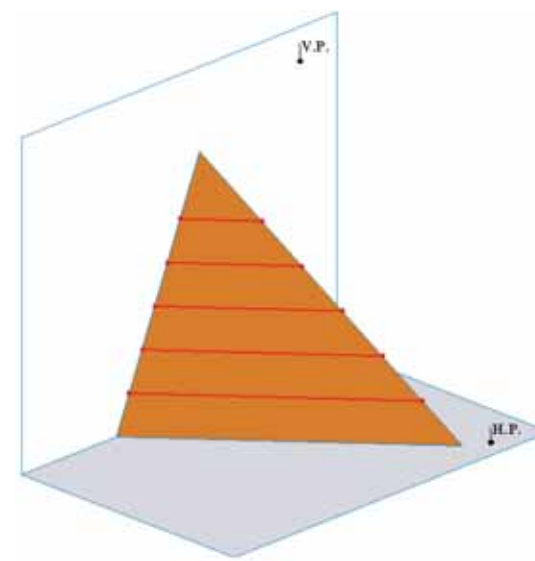
	V.P.
	H.P.

In parts 1- 4, draw the horizontal and vertical traces of the planes shown in the space provided.

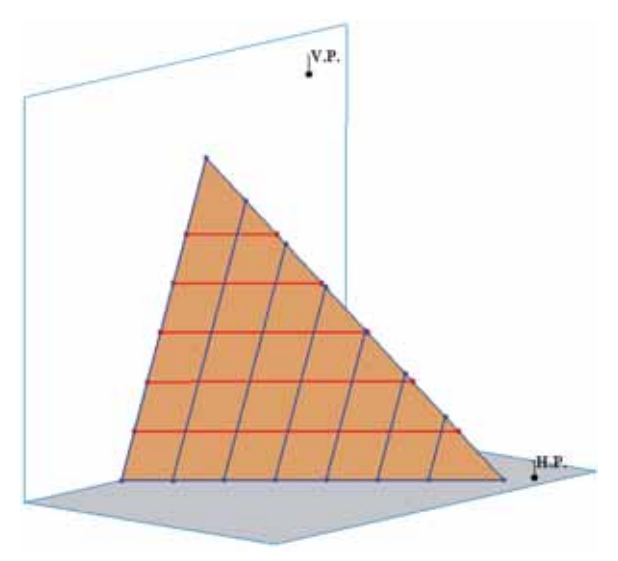
In part 3, show the projections of the lines on the plane that are parallel to the H.P. in your orthographic views.

In part 4, show the projections of the lines on the plane that are parallel to the V.P. in your orthographic views.

3



4

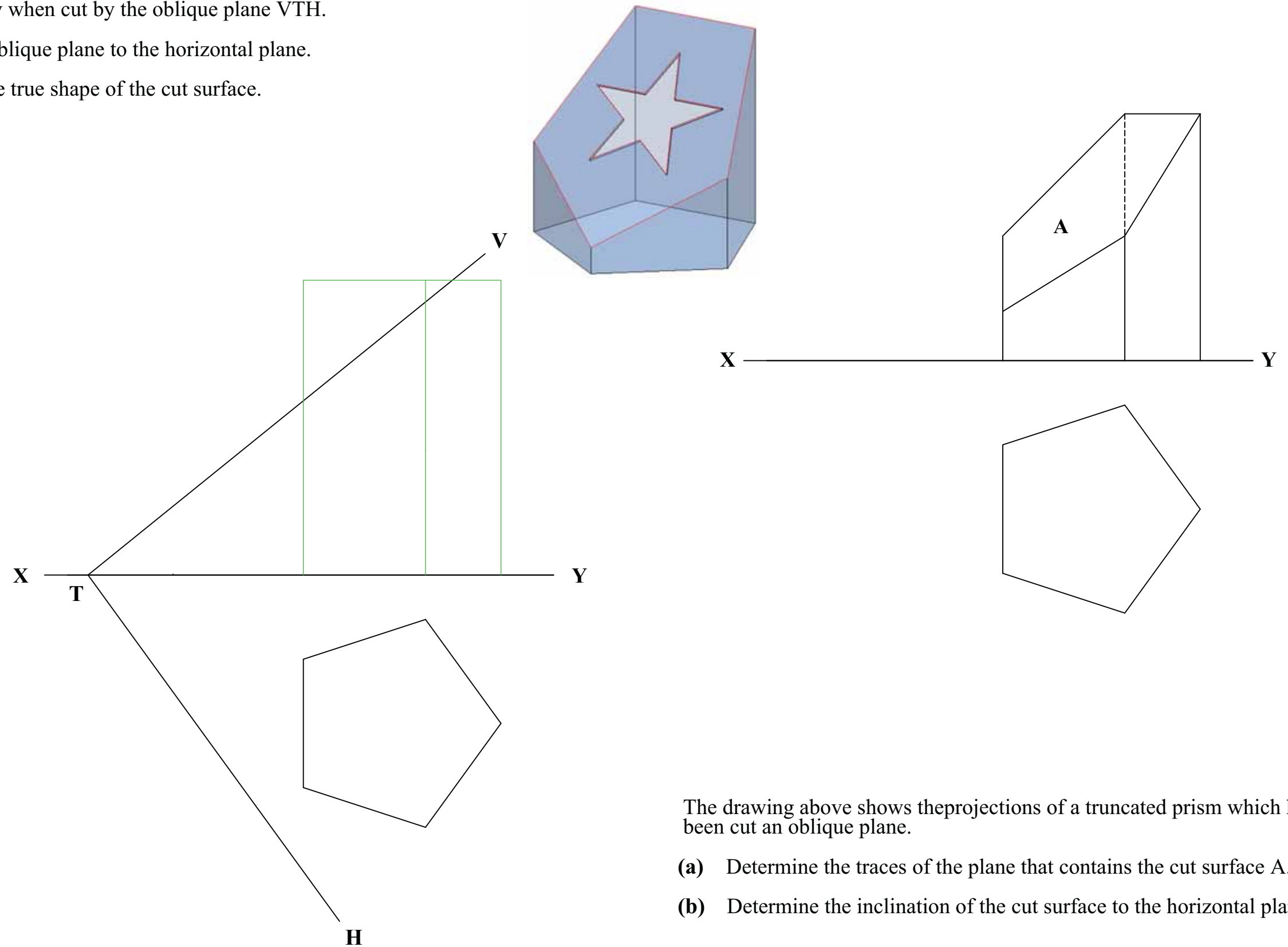


NAME: _____ DATE: _____

The 3D graphic on the right shows a glass trophy which has been engraved as shown. The trophy is based on a truncated pentagonal prism.

The drawing below shows the projections of the prism and the traces of the oblique plane VTH. trophy is cut to form the sloping face.

- (a) Draw the projections of the trophy when cut by the oblique plane VTH.
- (b) Determine the inclination of the oblique plane to the horizontal plane.
- (c) Hence, or otherwise, determine the true shape of the cut surface.



The drawing above shows the projections of a truncated prism which has been cut an oblique plane.

- (a) Determine the traces of the plane that contains the cut surface A.
- (b) Determine the inclination of the cut surface to the horizontal plane.

