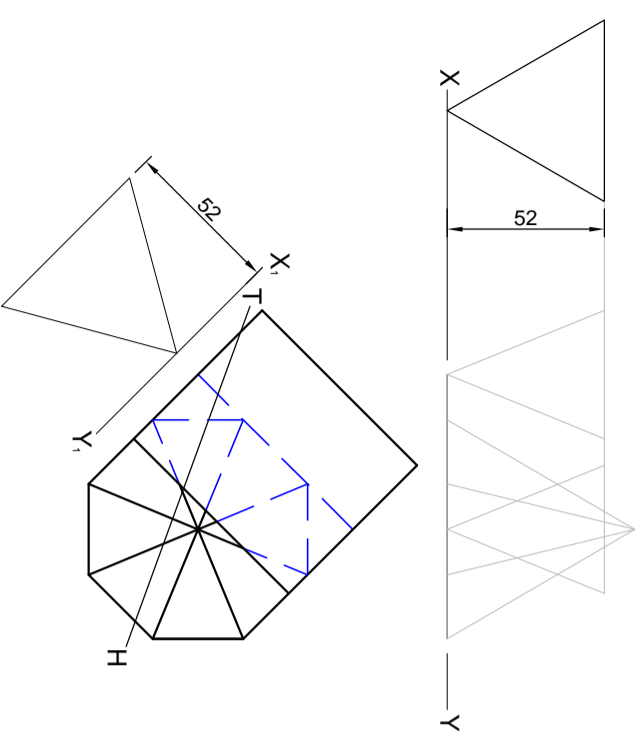
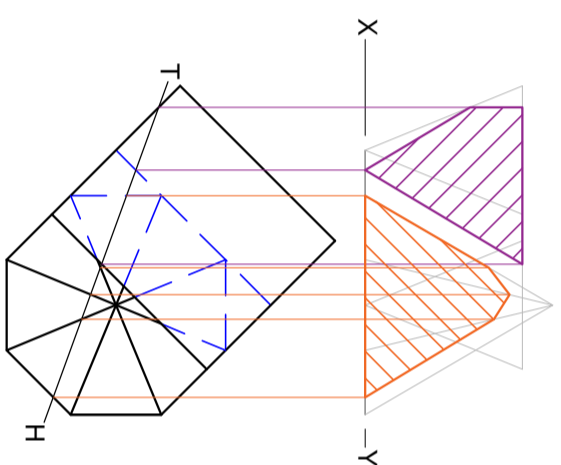


QUESTION : SOLID Geometry

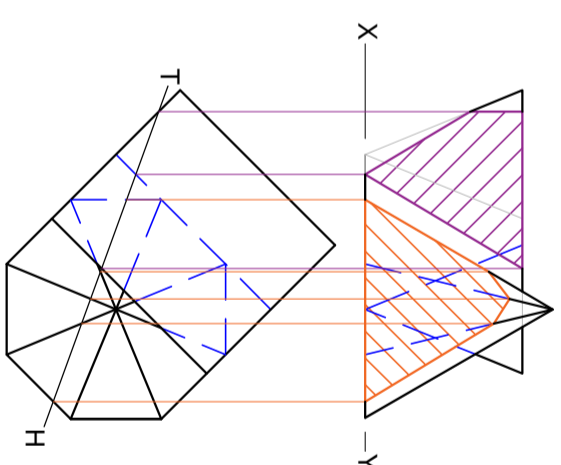
1 Draw the given views. Draw the front view faint because later you would be cutting it.



2 Project the cut points to the front view. Outline the cut areas.



3 Draw the outlines of the remainder of the cut solids. Insert all hidden detail.

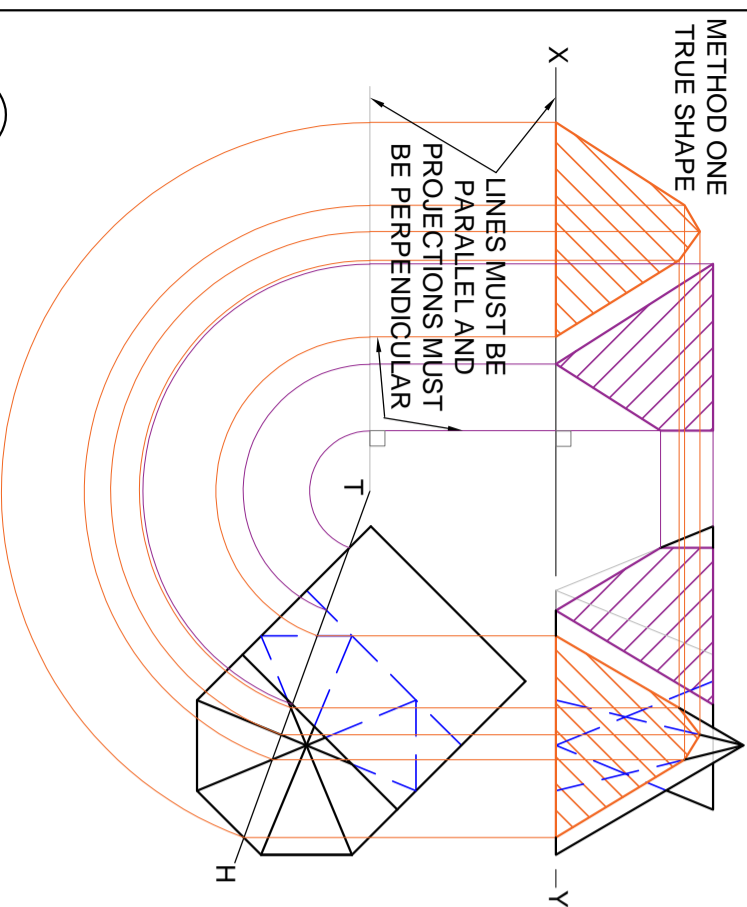


- Given:**
- The front view and top view of a right equilateral triangular prism and a right regular octagonal pyramid.
 - The auxiliary view of the triangular prism
 - The position of base edge 'A-B' on the answer sheet

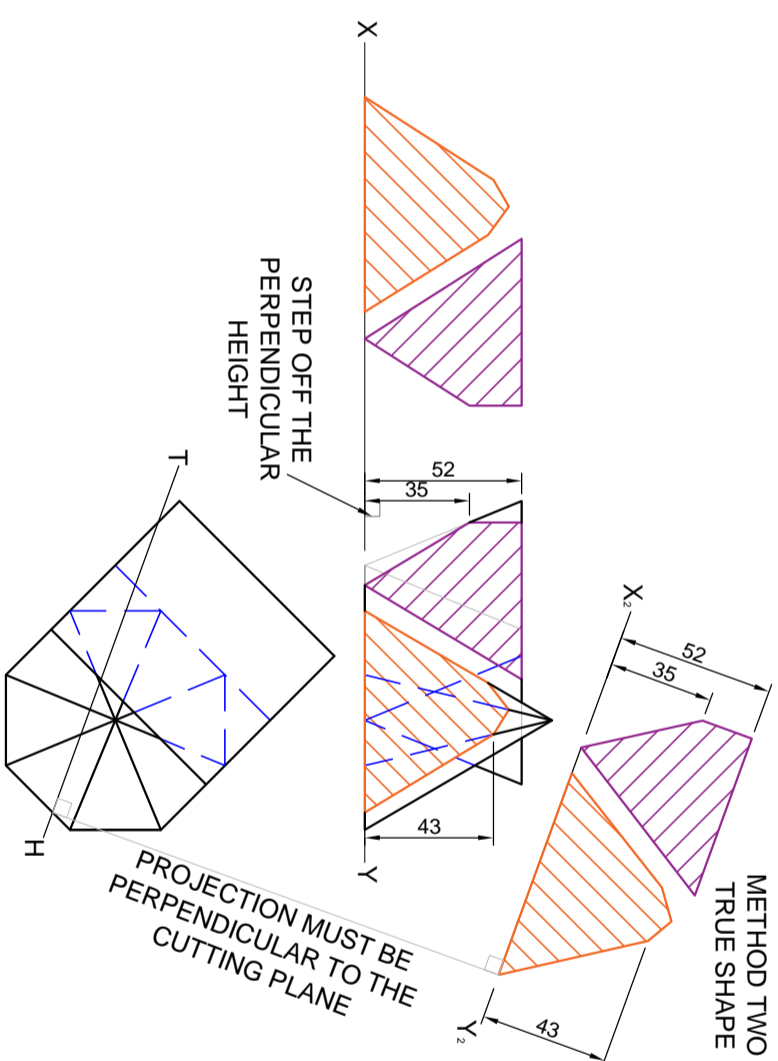
Specifications:
One face of the triangular prism is in contact with one face of the octagonal pyramid. Both solids are cut by a cutting plane HT.

- Instructions:**
Draw, to scale 1:1, the following views of the TWO solids:
2.1 The given top view
2.2 A sectional front view on cutting plane HT
2.3 The true shape of the cut surfaces

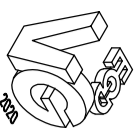
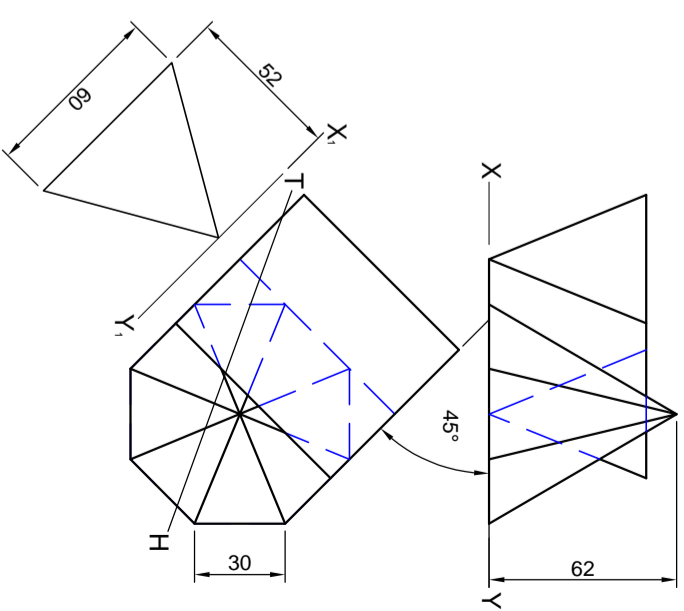
- Show ALL necessary construction and projection
- Show ALL hidden detail



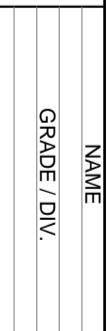
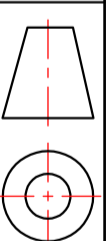
4 Draw the true shape of the sectioned surfaces. Use Method one or Method two. Familiarise yourself with both methods.



5 Setting out your answer is important. The two methods shown can assist you to use method one or two depending on the area you have available in your answer sheet. Finally hatch both solids. Since there are two solids hatching should be done in opposite directions. Keep the directions the same for the true shape.



SOLID GEOMETRY - STEP BY STEP



NAME _____
GRADE / DIV. _____

DATE _____
EXEMPLAR 2014 Q2

QUESTION : SOLID Geometry

Given:

- The front view and top view of a right equilateral triangular prism and a right regular octagonal pyramid.
- The auxiliary view of the triangular prism
- The position of base edge 'A-B' on the answer sheet

Specifications:

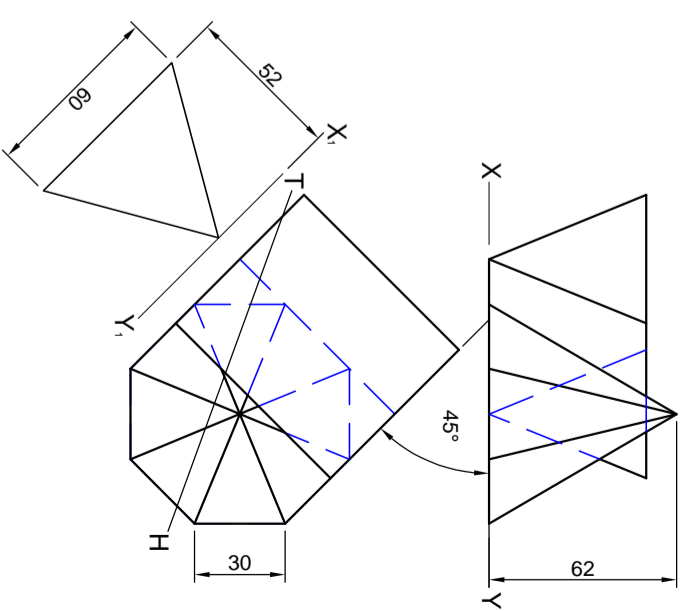
One face of the triangular prism is in contact with one face of the octagonal pyramid. Both solids are cut by a cutting plane HT.

Instructions:

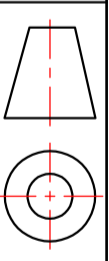
Draw, to scale 1:1, the following views of the TWO solids:

- 2.1 The given top view
- 2.2 A sectional front view on cutting plane HT
- 2.3 The true shape of the cut surfaces

- Show ALL necessary construction and projection
- Show ALL hidden detail



SOLID GEOMETRY



NAME	DATE
GRADE / DIV.	EXEMPLAR 2014 Q2

TRUE SHAPE

X₂

Y₂

X

Y

T

H

SOLID GEOMETRY

SCALE
1:1

NAME

DATE

GRADE / DIV.

EXEMPLAR 2014

E14

