

QUESTION 2: INTERPENETRATION AND DEVELOPMENT

Given:

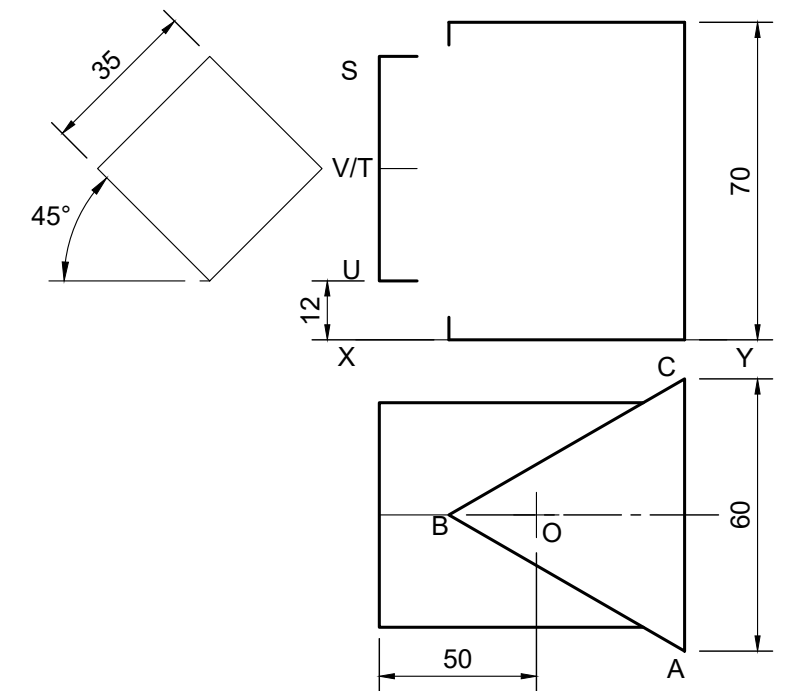
- The incomplete front view and the top view of a regular square pipe which has been shaped to fit in an equilateral triangular pipe
- The axis of both pipes lie in a common vertical plane.
- The auxiliary view of the square pipe.
- The position of point O on the drawing sheet.

Instructions:

- Draw to scale 1 : 1, the following views of the two prisms:
- 2.1 The given top view
 - 2.2 The complete front view, clearly showing the curve of interpenetration
 - 2.3 The left view
 - 2.4 Develop the surface of the triangular pipe. Use point A to B as the start position.
 - 2.5 Develop the surface of the square pipe. Use point S to T as the start position.

Show all construction lines and fold lines.

[28]



| ASSESSMENT CRITERIA | | | |
|---------------------|-------------------------|-----------|--|
| 1 | TOP VIEW | 3.5 | |
| 2 | FRONT VIEW | 6 | |
| 3 | LEFT VIEW | 4.5 | |
| 4 | DEVELOPMENT OF TRIANGLE | 8 | |
| 5 | DEVELOPMENT OF SQUEAR | 6 | |
| PENALIZING (-1) | | | |
| TOTAL | | 28 | |



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| INTERPENETRATION & DEVELOPMENTS | ESTIMATED TIME FOR COMPLETION | 30 MIN | GRADE 11 | NAME & SURNAME | | TASK 8.2 | PAGE 32 |
| | YOUR TIME OF COMPLETION | MIN | | | | | |