



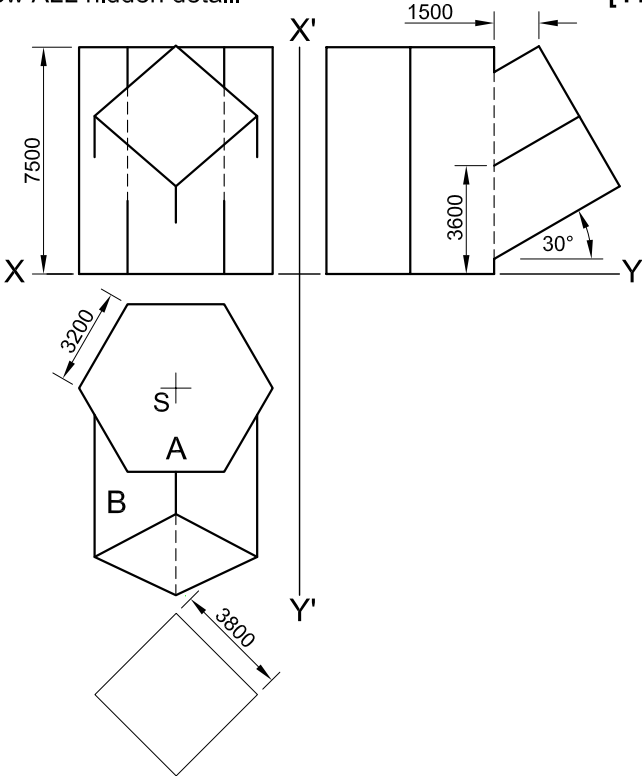
S+

QUESTION 2: INTERPENETRATION AND DEVELOPMENT

Given:
The incomplete front view, top view and the incomplete left view of an anchor used to secure an arch over a stadium. The anchor is a concrete casting in the form of a hexagonal prismatic footing (A) and a square branch piece (B), that has been shaped to fit around the footing. The axes of both pieces lie in a common vertical plane. The branch piece will be cladded with stainless steel.

- Instructions:**
- 2.1 Draw, to scale 1:100 and in first-angle orthographic projection, the following views of the complete anchor clearly showing the curve of interpenetration that will be formed between the two pieces:
 - 2.1.1 The top view using point S as a reference
 - 2.1.2 The complete front view
 - 2.1.3 The complete left view
 - 2.2 Develop the surface of the stainless steel cladding that will cover the branch piece B. Label the development.

- Show ALL necessary constructions.
 - Show ALL hidden detail.
- [44]



ASSESSMENT CRITERIA				
TOP VIEW & CONSTRUCTION	6½			
FRONT VIEW	17			
LEFT VIEW	10			
DEVELOPMENT	10½			
TOTAL	44			
EXAMINATION NUMBER				
EXAMINATION NUMBER				3