



QUESTION 2: INTERPENETRATION AND DEVELOPMENT

Given:

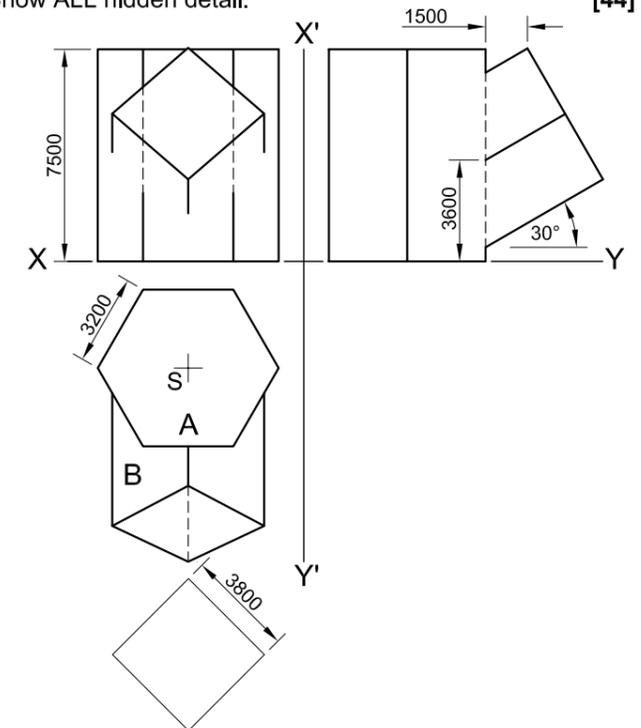
The incomplete front view, top view and the incomplete left view of an anchor used to secure an arch over a stadium. The anchor is a concrete casting in the form of a hexagonal prismatic footing (A) and a square branch piece (B), that has been shaped to fit around the footing. The axes of both pieces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



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