

JUNIOR LYCEUM ANNUAL EXAMINATIONS 2008
DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION
Educational Assessment Unit

FORM 4 (4th year) GRAPHICAL COMMUNICATION (Tech. Des.) Time 2 hours

Instructions

- Write your name and class on all sheets.
- Attempt ALL questions.
- All answers are to be drawn accurately, with instruments, unless otherwise stated.
- All construction lines **MUST** be left on each solution to show the method employed.
- Drawing aids may be used.

Information

- All dimensions are in millimetres.
- Estimate any missing dimensions not given.
- Marks will be awarded for accuracy, clarity and appropriateness of construction.

NAME _____

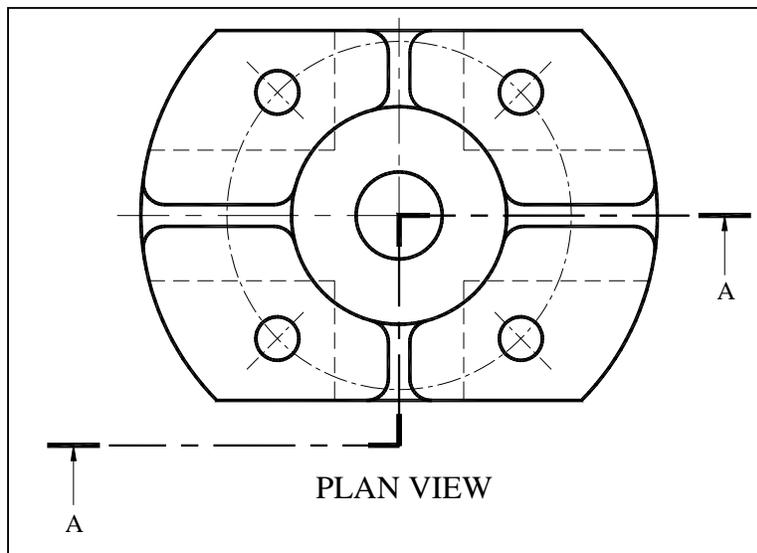
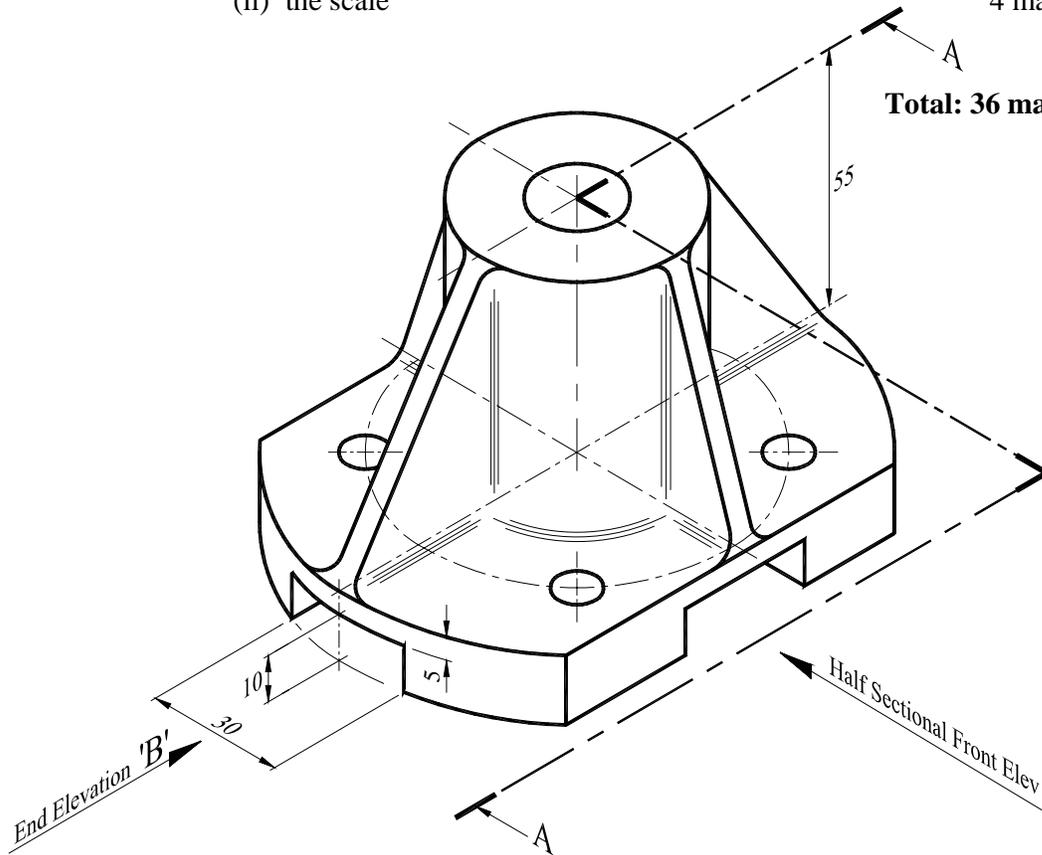
CLASS _____

Question	1	2	3	4	5
Max. mark	36	16	16	16	16
Mark					

1. The figure below shows an isometric view of a **SUPPORT BRACKET**

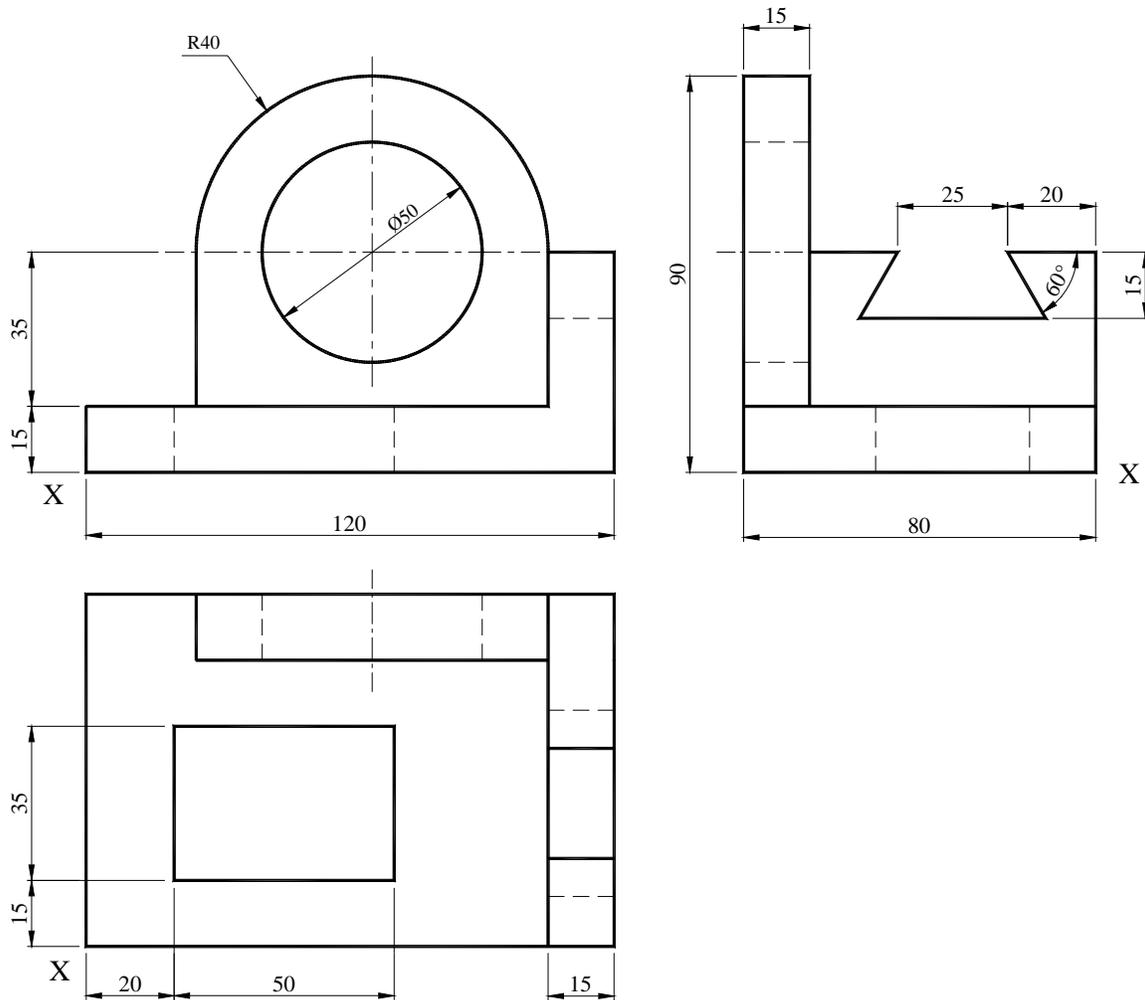
- (a) Draw, full size, using first angle projection, the following views:
- (i) a half sectional front elevation on plane A – A (**Note: the right hand half only to be in section**) 18 marks
 - (ii) a complete end elevation as seen from direction of arrow 'B' 14 marks
- (b) Add the following to your drawing:
- (i) the appropriate symbol to indicate the projection angle 4 marks
 - (ii) the scale

Total: 36 marks



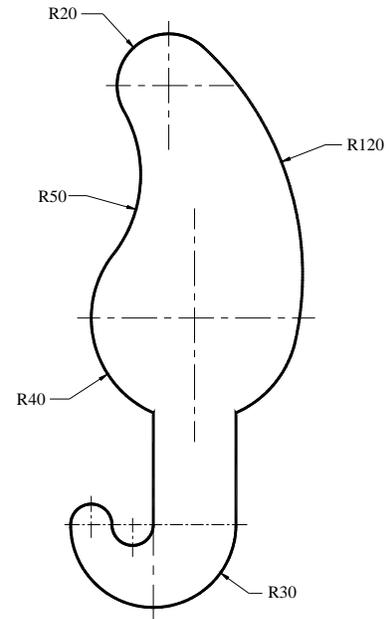
2. The figure below shows in first angle orthographic projection three views of an **Angle Block** which is part of a measuring instrument.
 Draw an Isometric view of the component, positioning corner 'X' in the foreground.

16 marks



3. The drawing shows the outline of a logo for a manufacturer of musical instruments. On the given centre lines, draw, full size, the outline of the logo. Clearly show your construction for finding the centres of all blending arcs. **Note:** the drawing is not drawn to scale.

16 marks



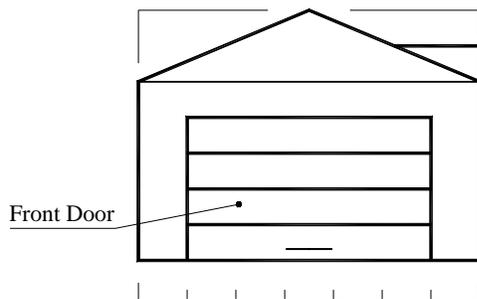
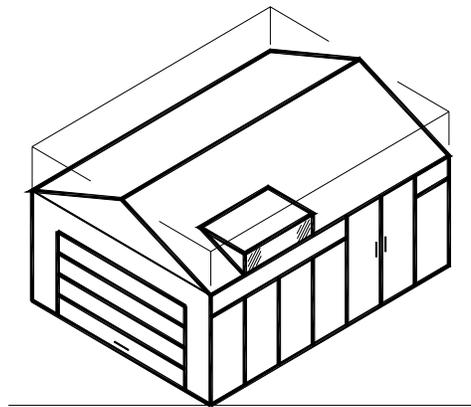
4. The drawings show a Front Elevation, a Side Elevation and an Isometric view of the main details of a Garage. The door on the front consists of four equal sized panels. The Side consists of seven equal sized panels, including the side door. Complete the **two** point estimated perspective view of the Garage, using the given VP's, and start lines.

Use appropriate methods for:

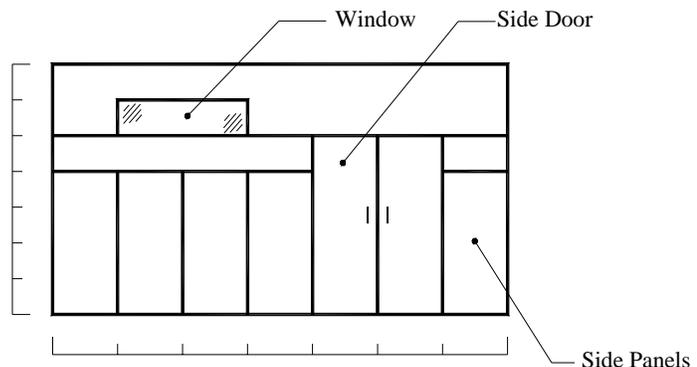
- i) the panels of the front door;
- ii) the side panels including the door;
- iii) the apex of the roof;
- iv) the side window.

Do not use colour or shading to your drawing.

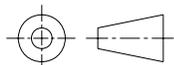
16 marks



Front Elevation

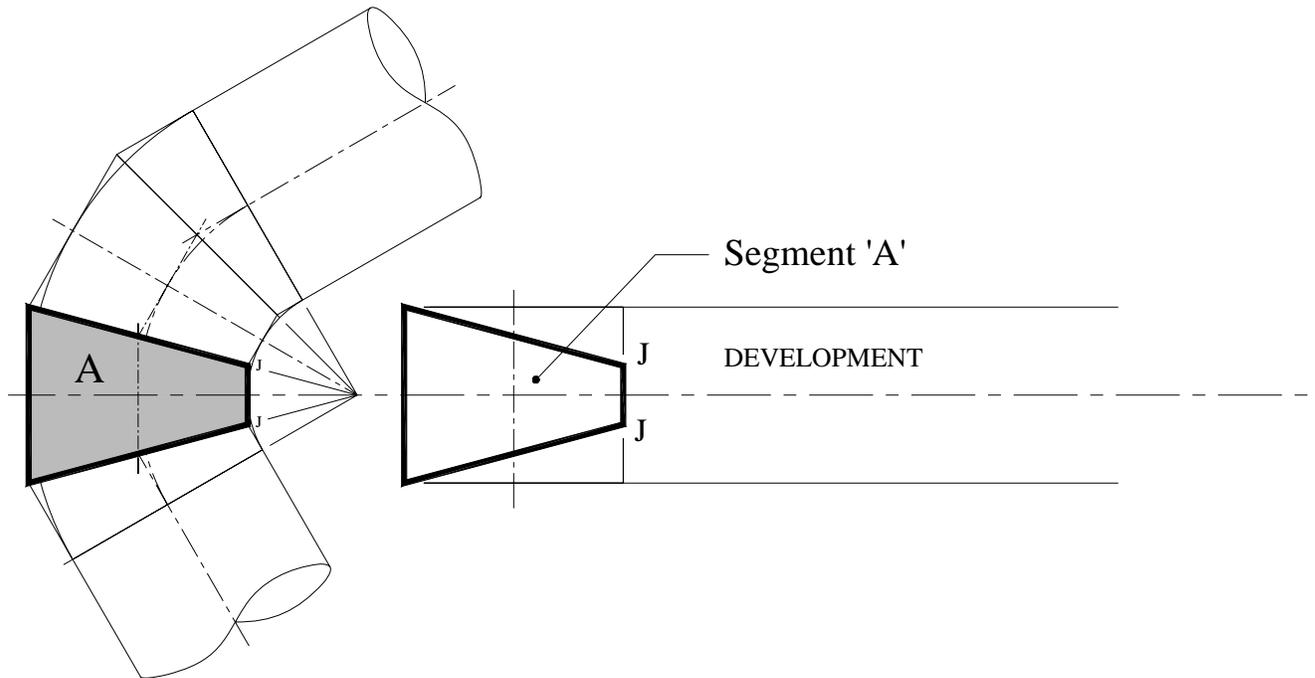


Side Elevation

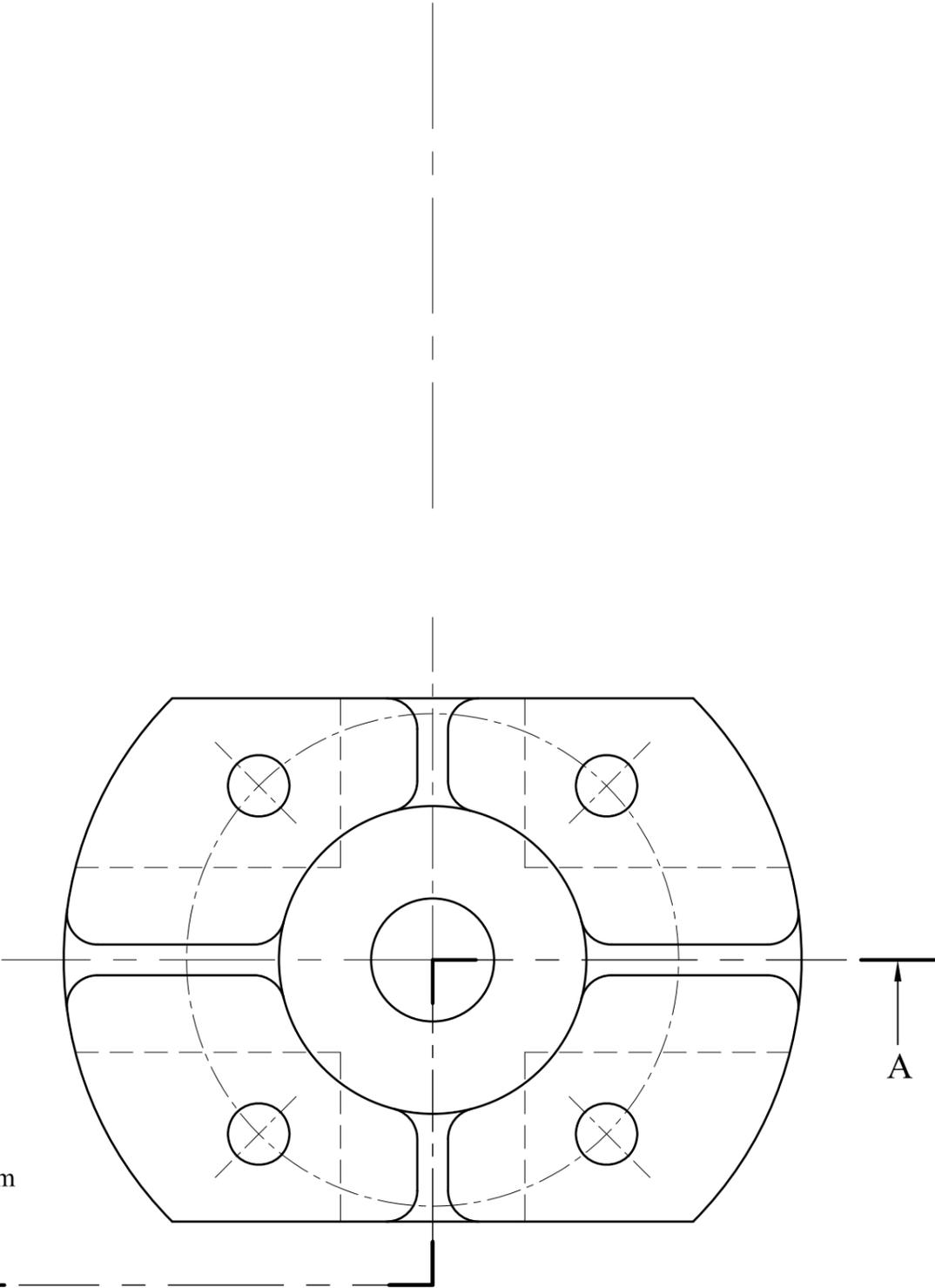


5. The figure shows the front elevation of a **Lobster – Back**, also called a **Segmental Bend**.
Construct geometrically a complete development of **ONE** of the larger segments (shown as 'A'), assuming the joint line to be along J - J.

16 marks



QUESTION No.1

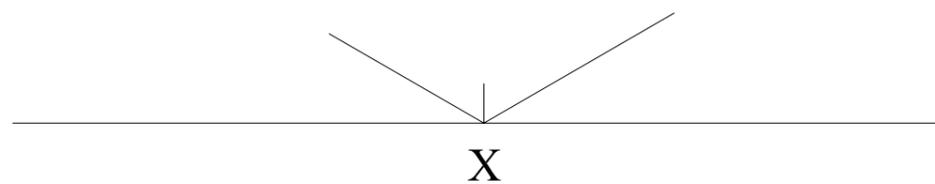


ALL FILLET RADII 5mm

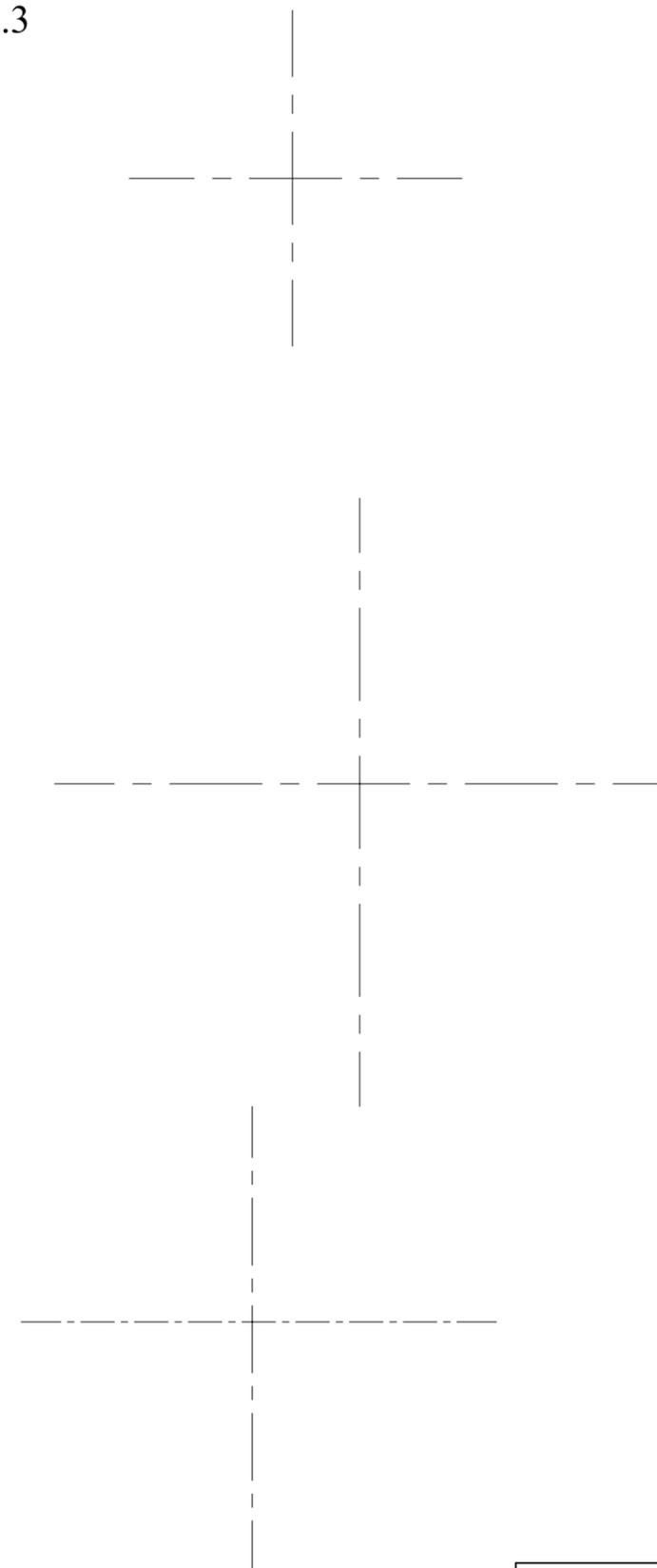
A

A

QUESTION No.2



QUESTION No.3



Sheet 2 of 4

QUESTION No.5

Lobster-Back or Segmental Bend

