

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

FORM 4 (2nd 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.

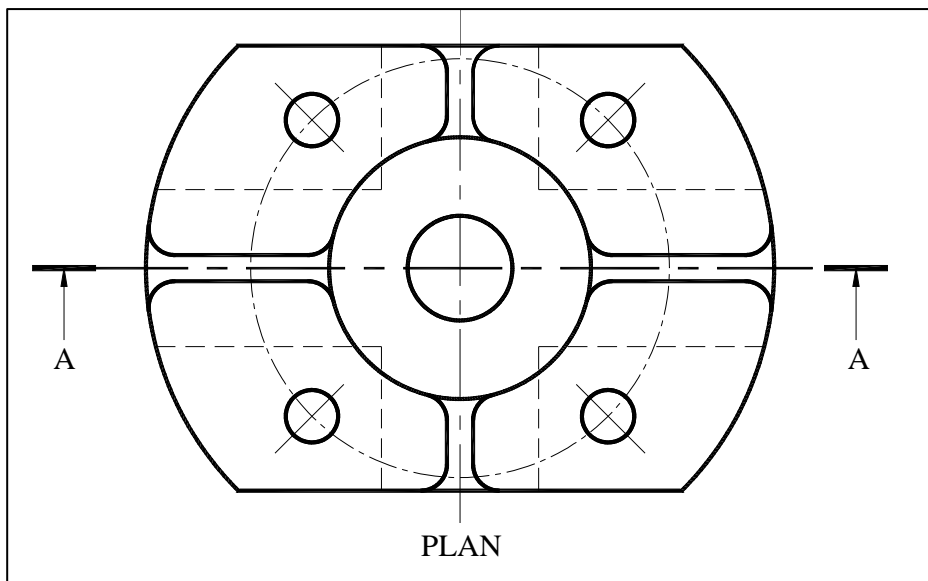
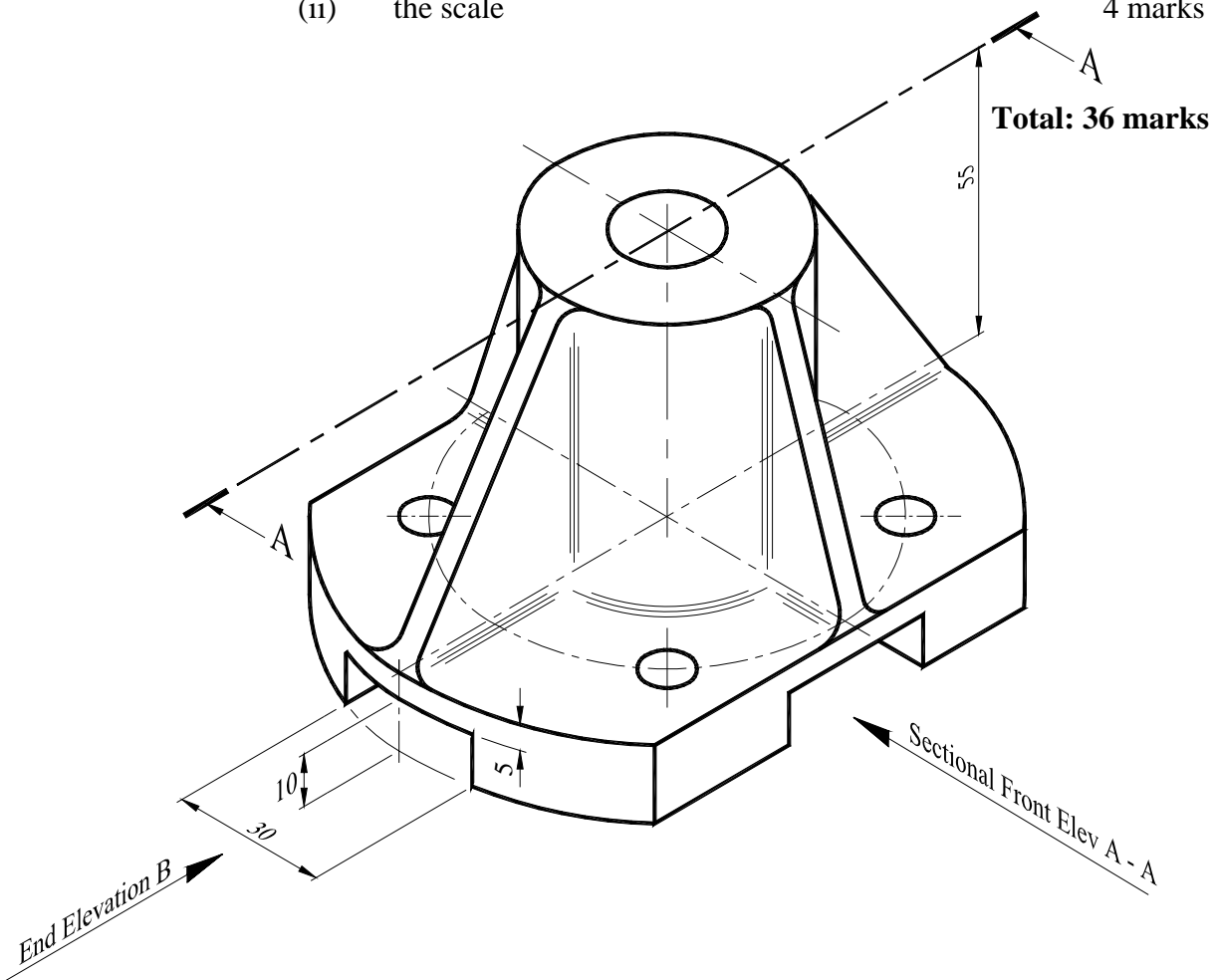
NAME _____

CLASS _____

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

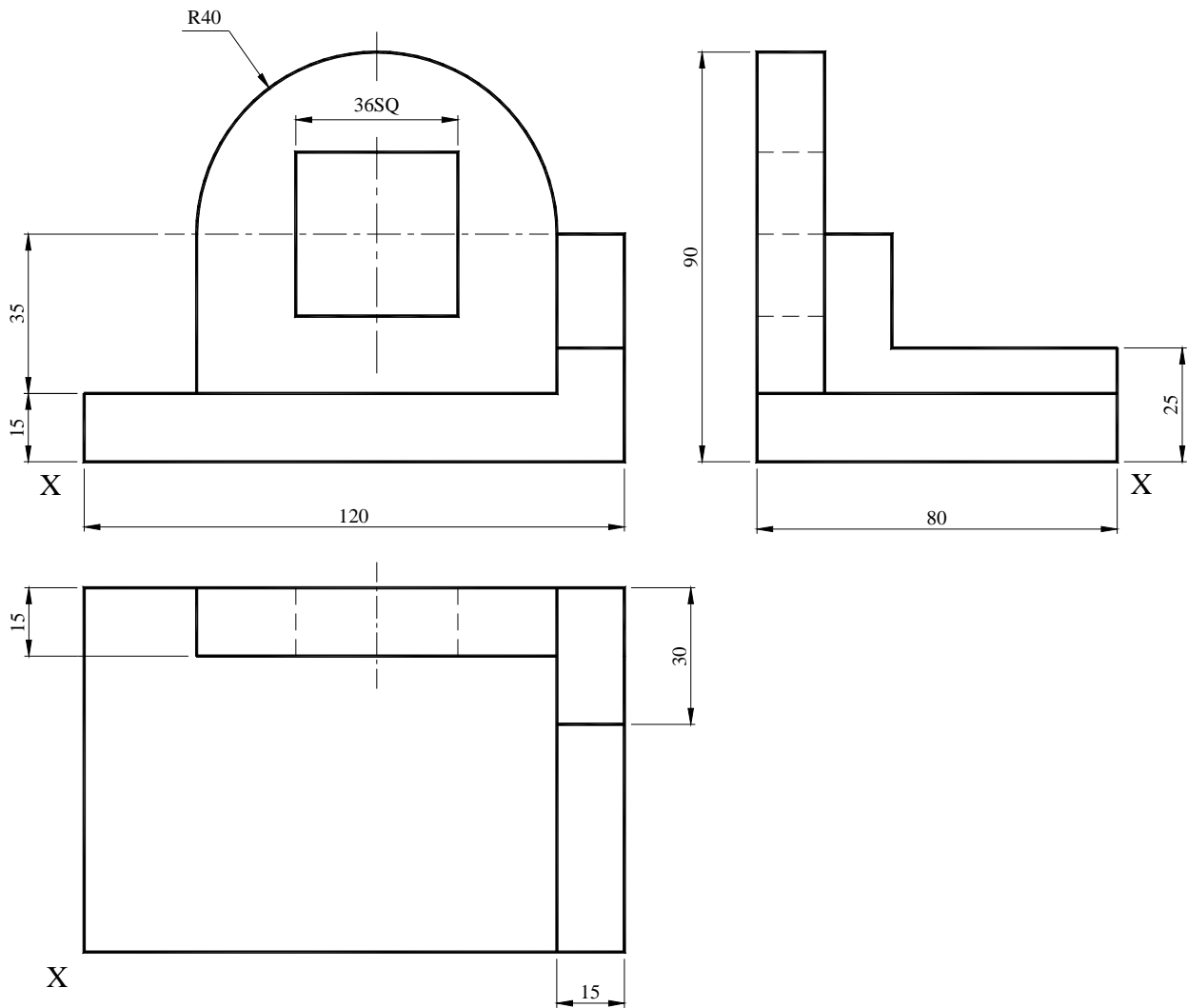
1. The figure below shows an isometric view of a **SUPPORT BRACKET**.

- (a) Draw, using first angle projection, the following views:
- (i) a sectional front elevation on plane **A – A** 18 marks
 - (ii) a complete end elevation in the direction of arrow '**B**' 14 marks
- (b) Add the following to your drawing:
- (i) the appropriate symbol to indicate the projection angle
 - (ii) the scale 4 marks



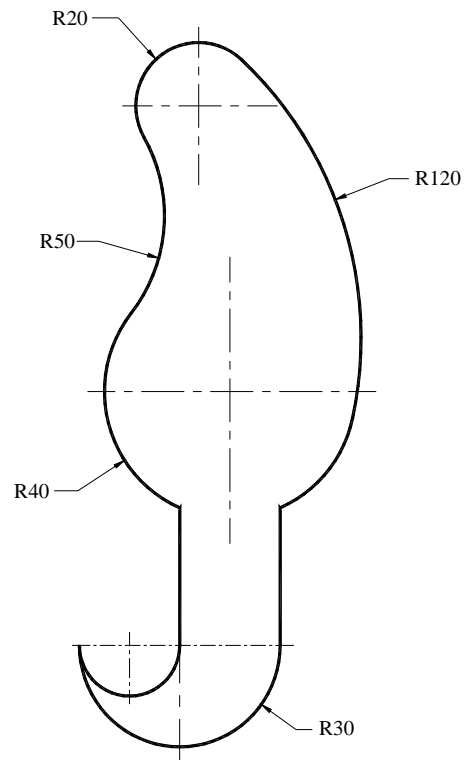
2. The figure below shows, in first angle orthographic projection, three views of an **Angle Block** which is part of a measuring instrument.
 Draw an Isometric view of the component, positioning corner 'X' in the foreground.

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



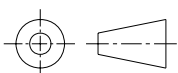
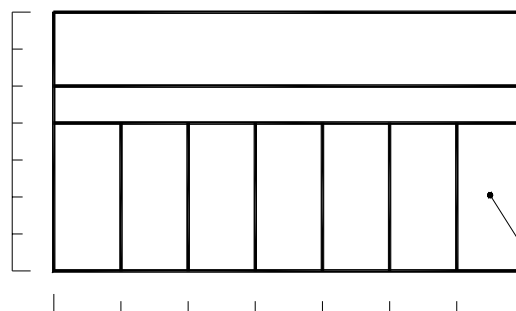
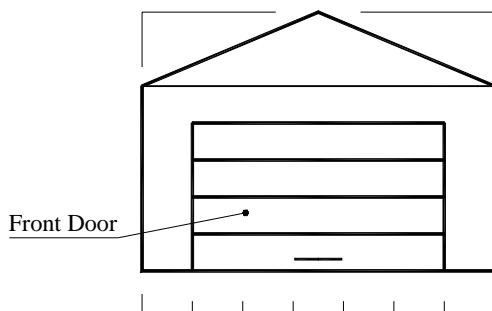
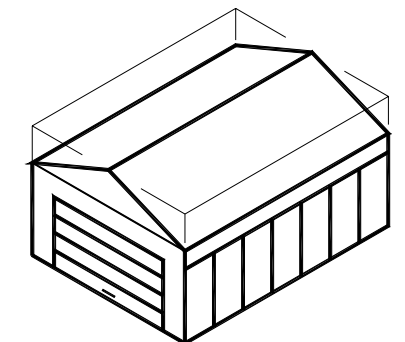
4. The drawing show a Front Elevation, a Side Elevation and an Isometric view of the main details of a Garage. The door on the front consists of four equal sized panels. The side consists of seven equal sized panels. Complete the **two** point estimated perspective view of the Garage, using the given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

Use appropriate methods for:

- i) the panels of the door;
- ii) the panels of the side;
- iii) the apex of the roof.

Do not use colour or shading to your drawing.

16 marks



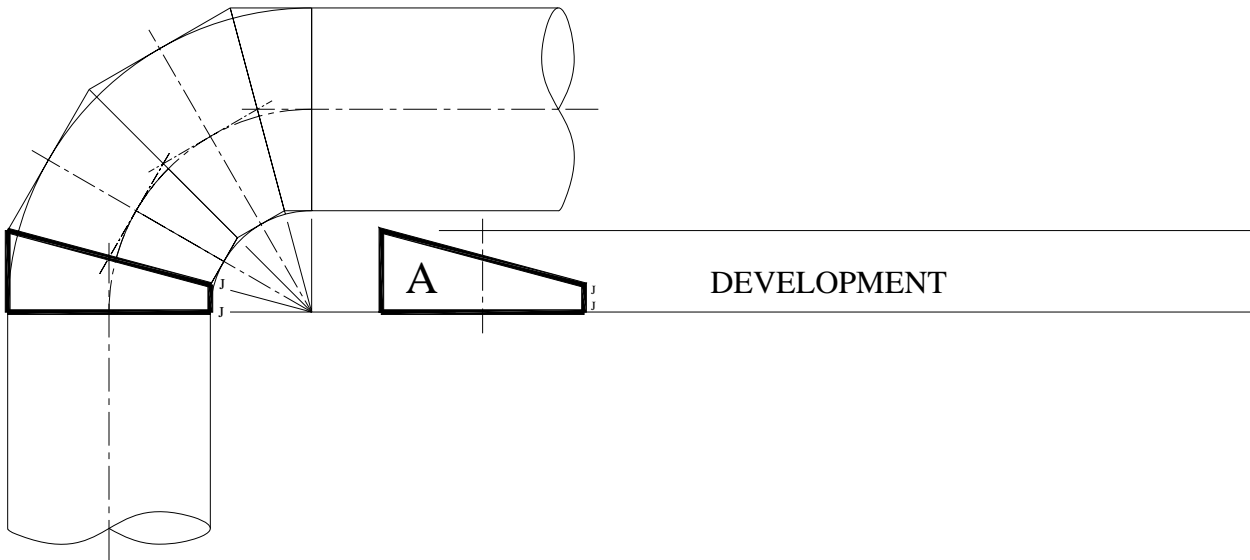
Front Elevation

Side Elevation

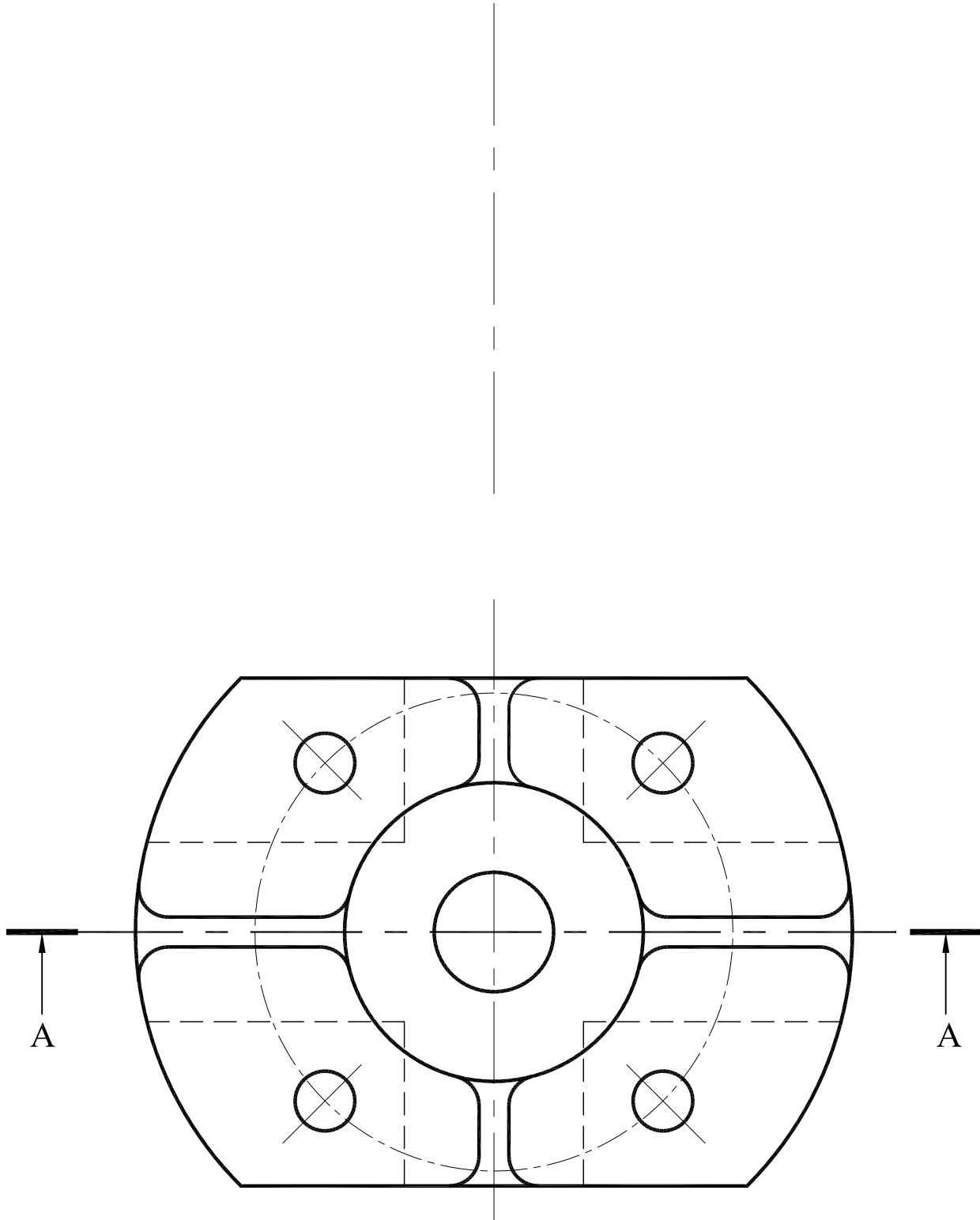
Side Panels

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

16 marks



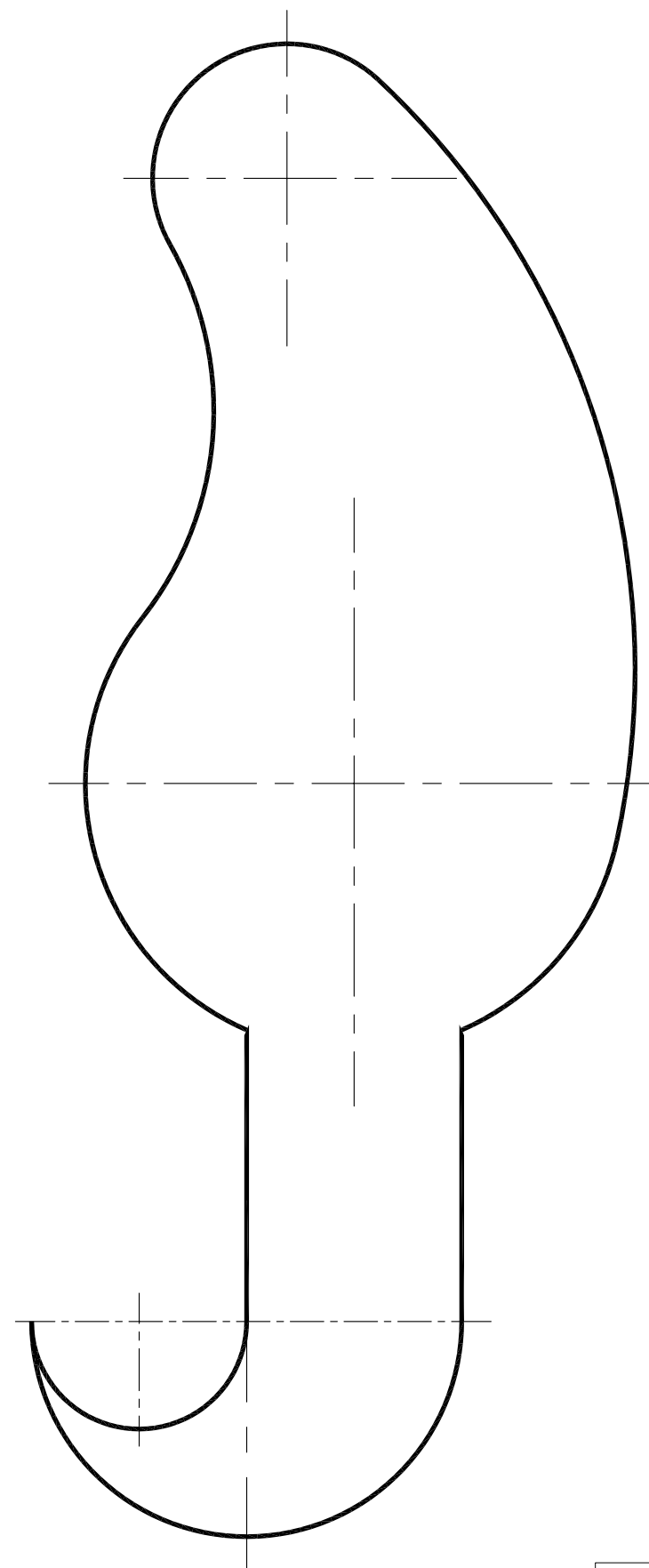
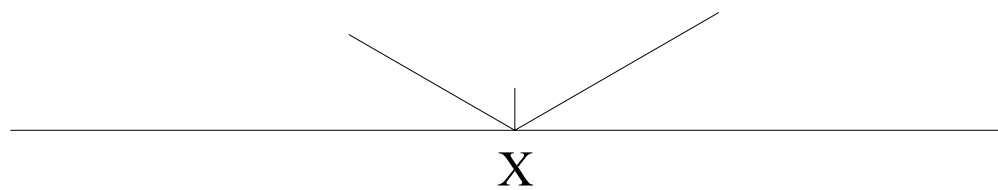
QUESTION No.1



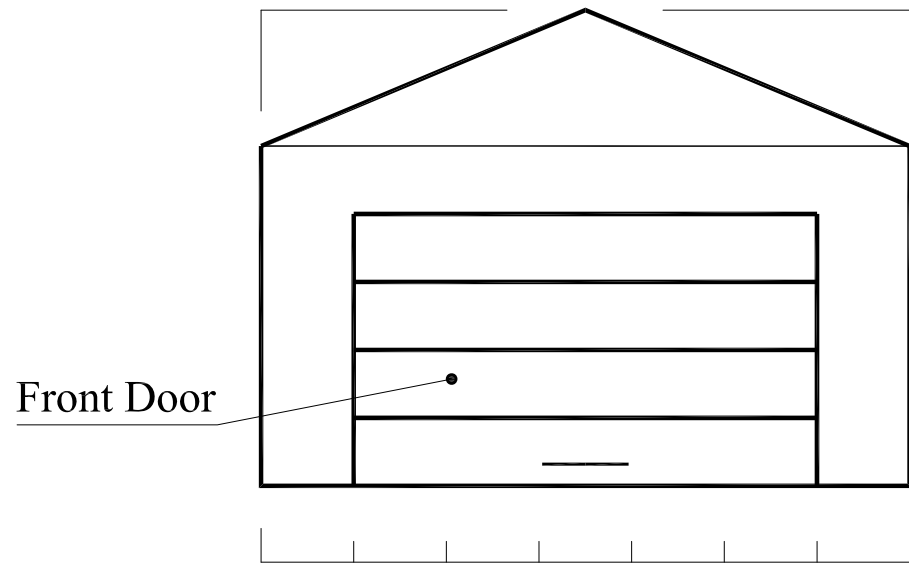
ALL FILLET RADII 5mm

QUESTION No.2

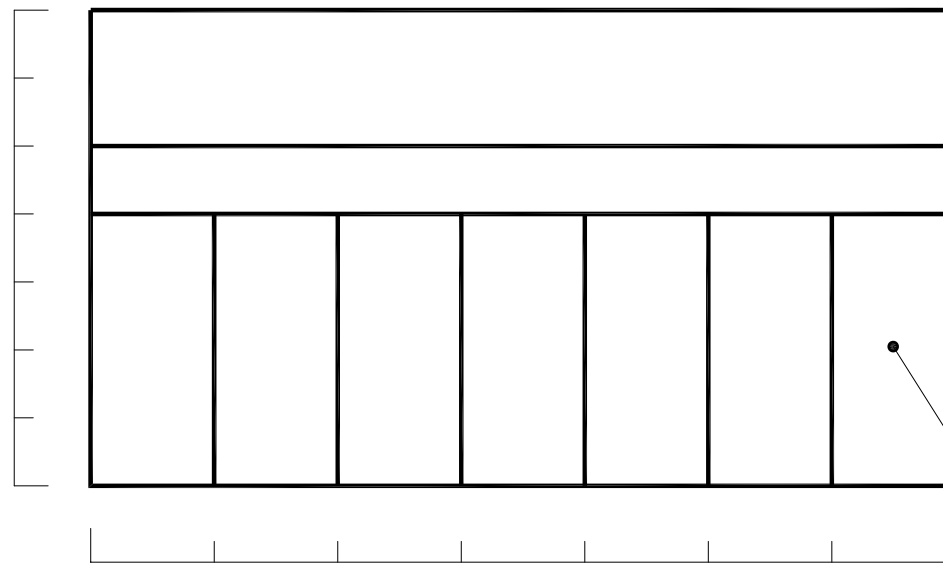
QUESTION No.3



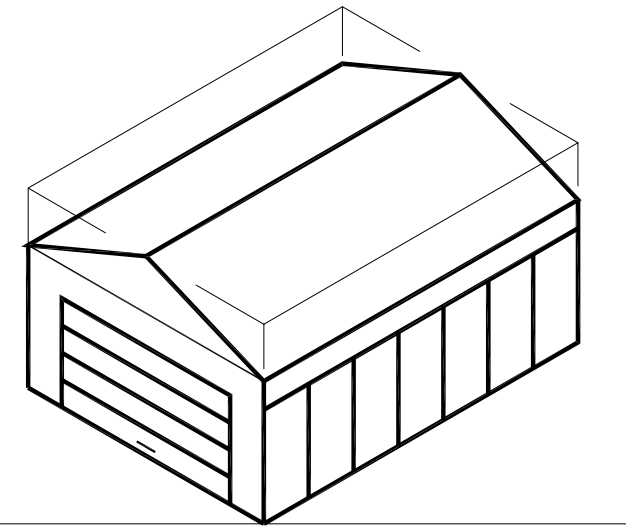
QUESTION No.4



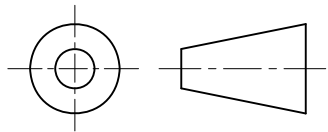
Front Elevation



Side Elevation

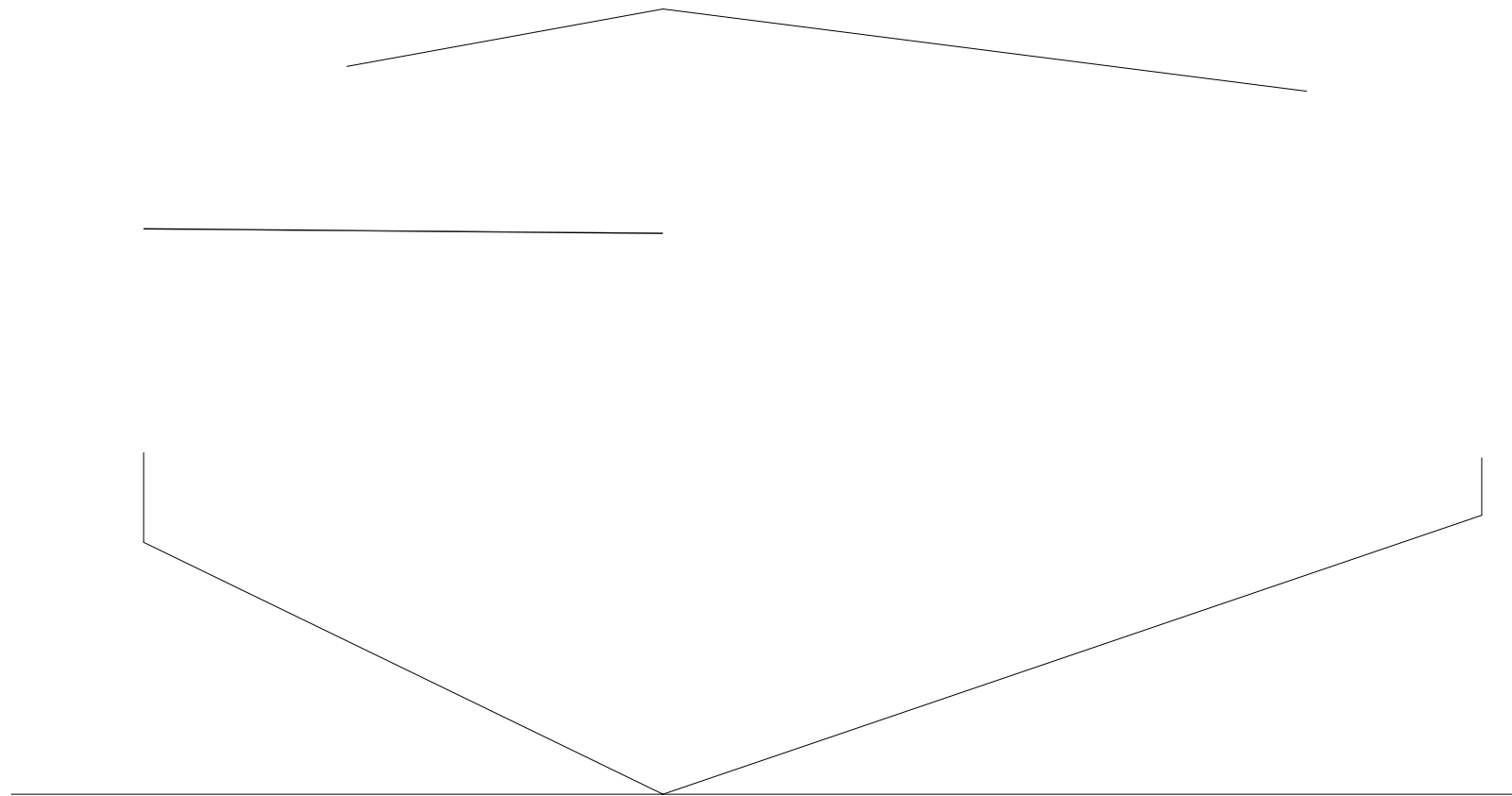


Side Panels



VP₁

VP₂



QUESTION No.5

