

# JUNIOR LYCEUM ANNUAL EXAMINATIONS 2009

Directorate for Quality and Standards in Education  
Educational Assessment Unit

---

<b>FORM 3 (3<sup>rd</sup> year)</b>	<b>GRAPHICAL COMMUNICATION</b>	<b>TIME: 2 hours</b>
-------------------------------------	--------------------------------	----------------------

---

NAME : \_\_\_\_\_

CLASS : \_\_\_\_\_

## 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 used.
- Drawing aids may be used.

## Information

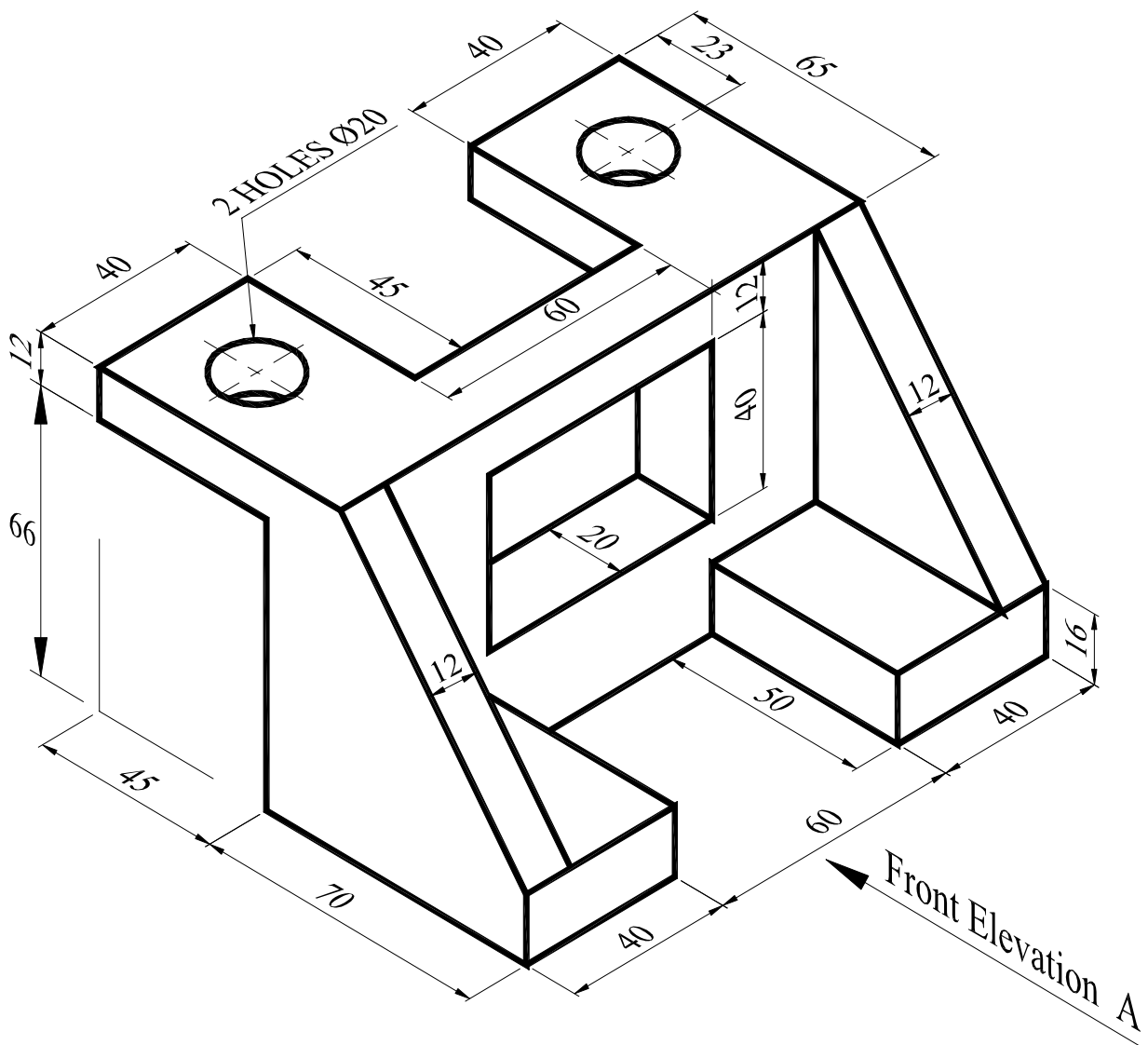
- All dimensions are in millimetres.
- Estimate any dimension not given.
- Marks will be awarded for accuracy, clarity and appropriateness of construction.

Question	1	2	3	4	5
Max. mark	36	15	15	16	18
Mark					

1. The figure below shows a pictorial view of a **BRACKET**. Draw, in **first angle orthographic projection**, the following views:

- (a) a front elevation from arrow 'A'. 12 marks
- (b) a complete plan. (**including all hidden details**) 20 marks

- Note: (i) Show the scale used. 2 marks  
(ii) Draw the symbol of projection used. 2 marks

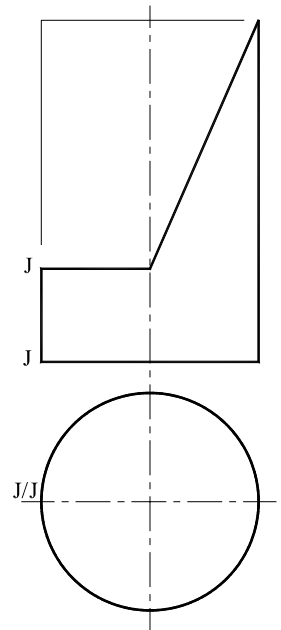
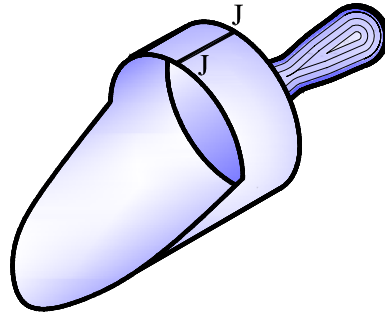
**Total 36 marks**

2. The pictorial view, shown below, shows a sugar scoop made from thin sheet metal and a wooden handle. A front elevation and a plan of the cylindrical part of the scoop are also given.

Construct a one piece development of the scoop assuming the joint to be along **JJ**.

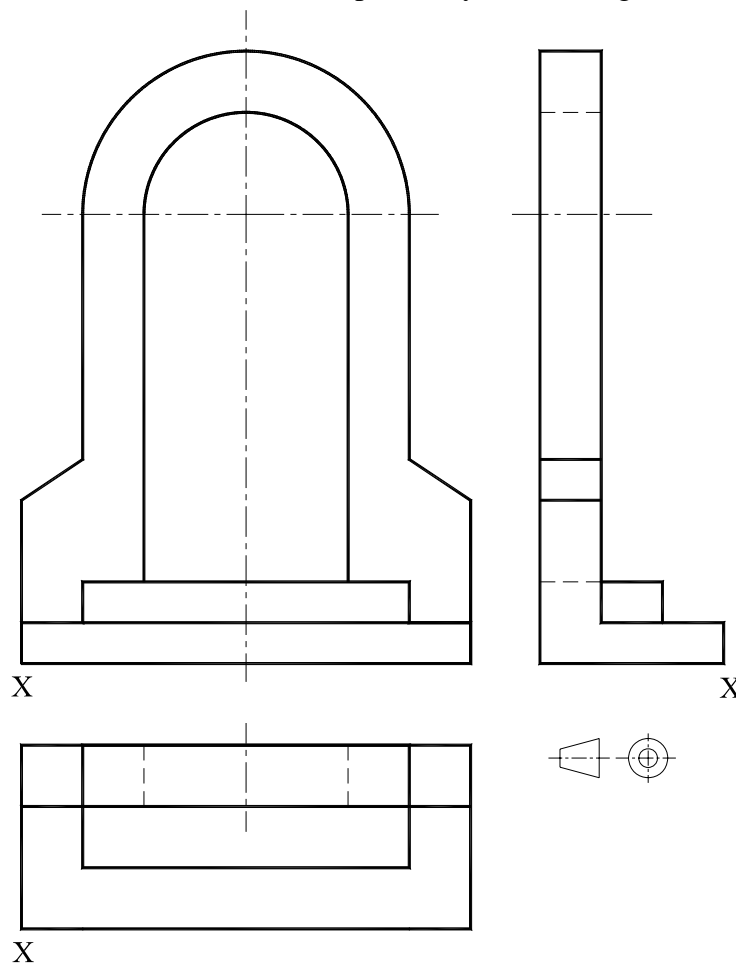
Show all construction lines.

**15 marks**



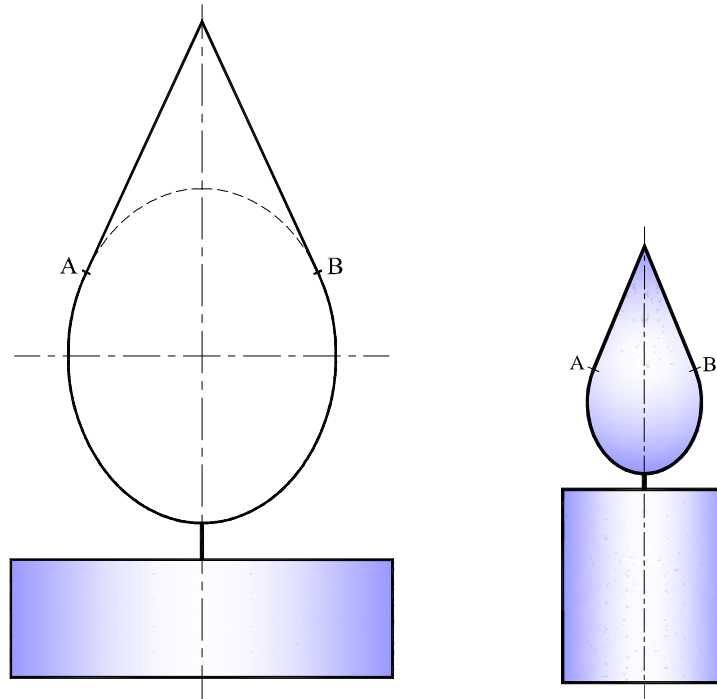
3. Three orthographic views of a stepped arched doorway are given. Using the given start lines and taking the dimensions from the given views on the starter sheet, convert full size, the drawing to an **Isometric view**. Position corner **X** to be the lowest point in your drawing.

**15 marks**



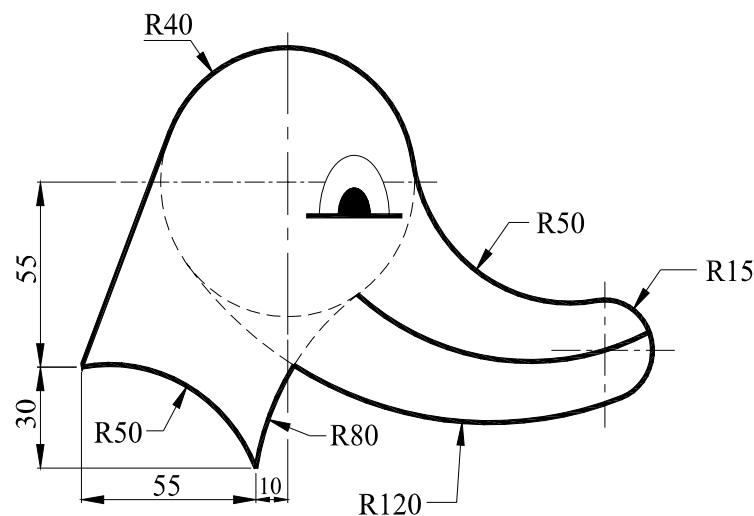
4. The flame of the logo of a candle factory consists of a part ellipse and two tangents as shown below.  
Using the given start line construct:
- The elliptical part **A – B** having a major axis of 100mm and a minor axis of 80mm.
  - The two tangents at points **A – B** forming the straight part of the flame.

**16 marks**

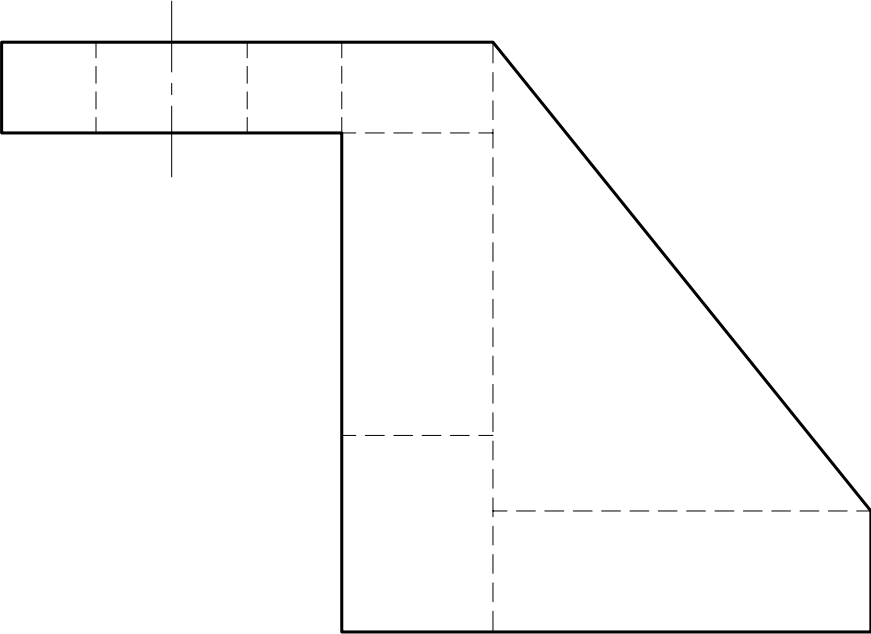
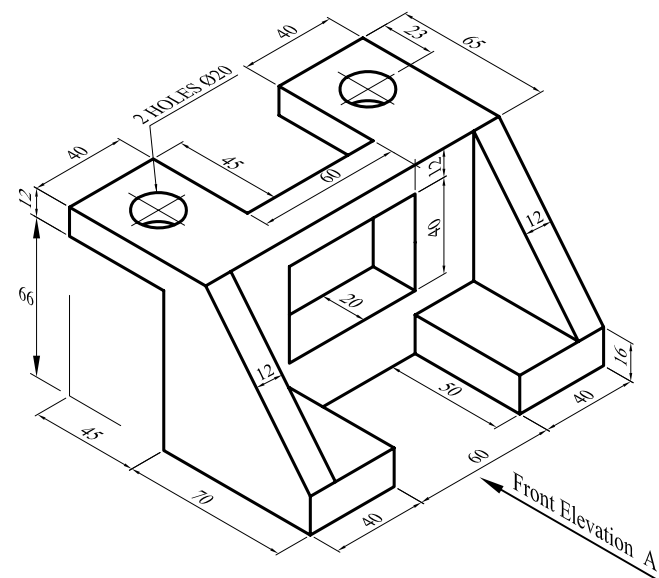


5. The diagram below right shows part of the outline of a drawing.  
Using instruments, complete a full size drawing of the given view.  
Clearly show constructions for the location of all compass drawn arcs.

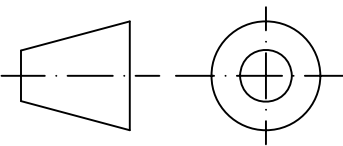
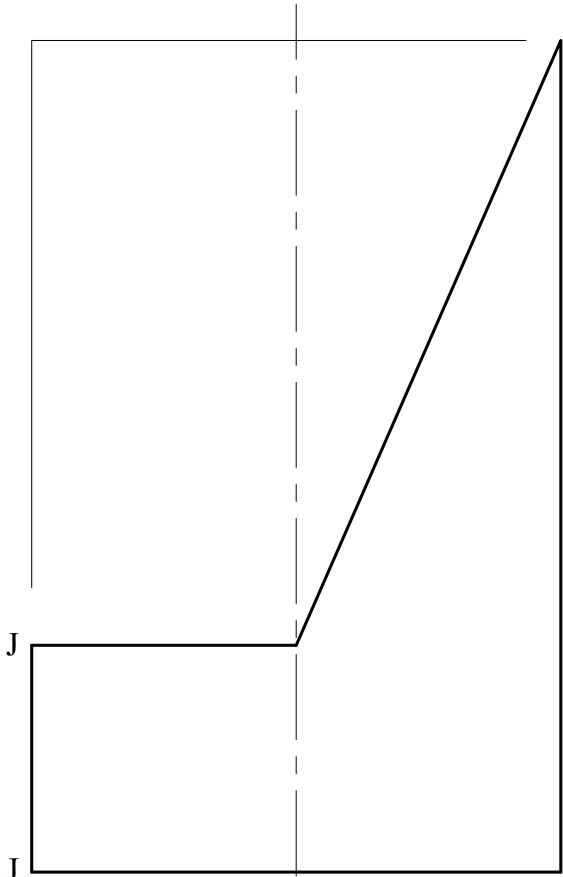
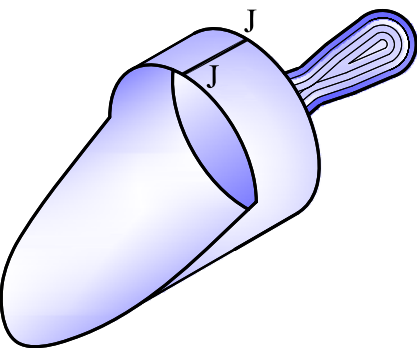
**18 marks**



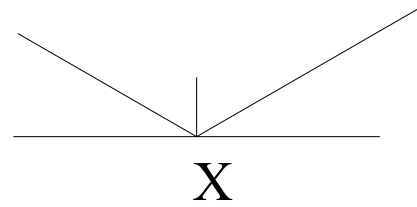
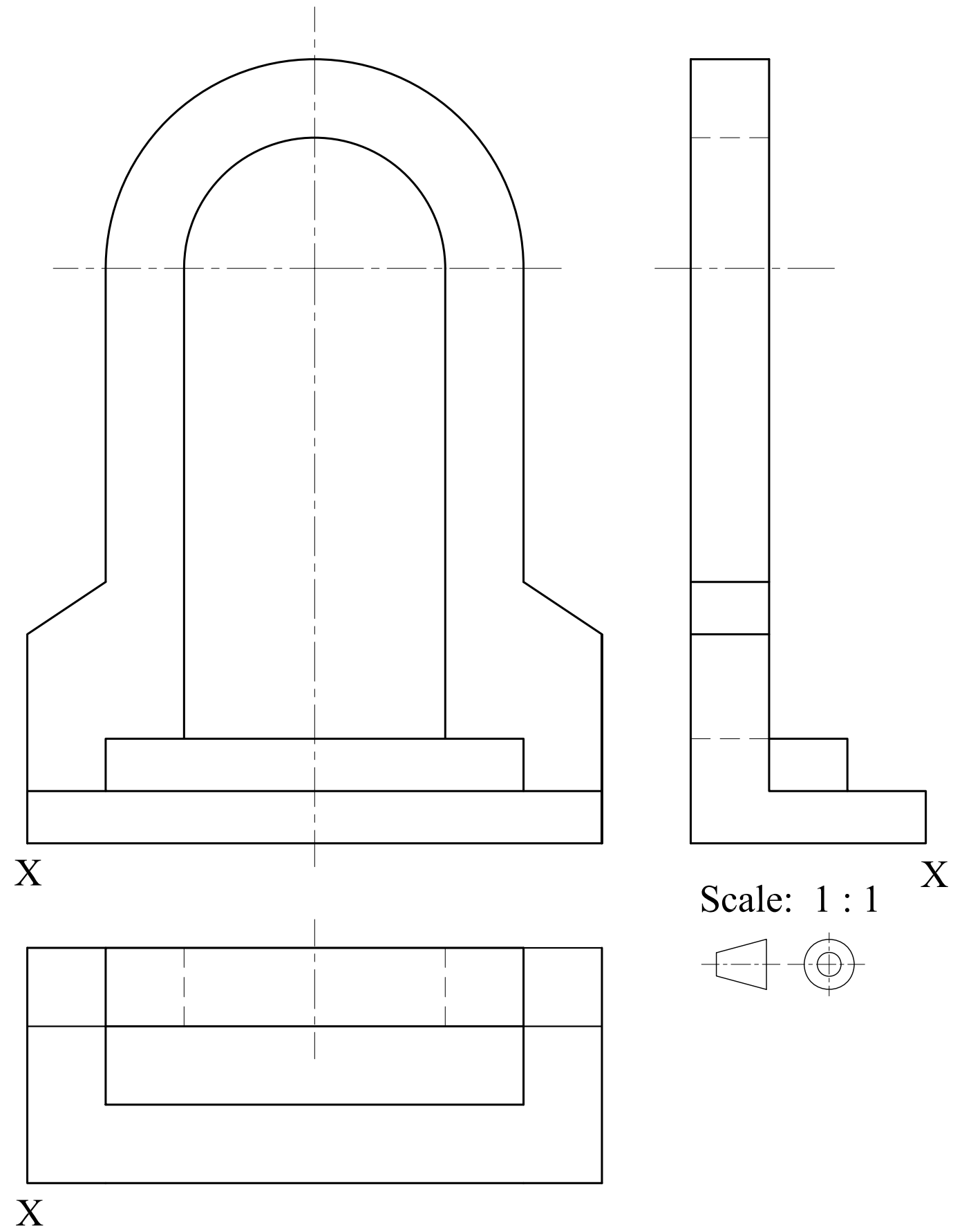
QUESTION No.1



QUESTION No.2

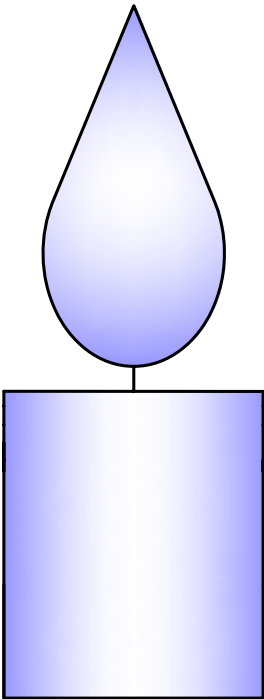


QUESTION No.3



Note: Dimensions of Isometric to be taken from the given orthographic views

QUESTION No.4



A

B



QUESTION No.5

