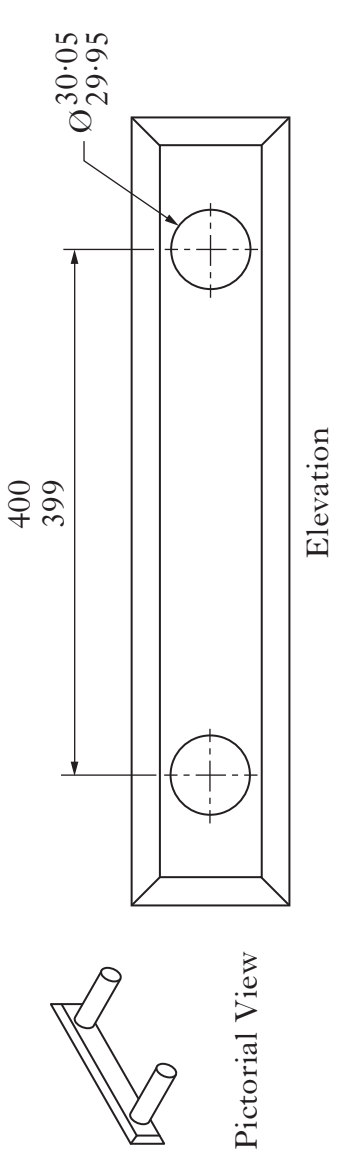


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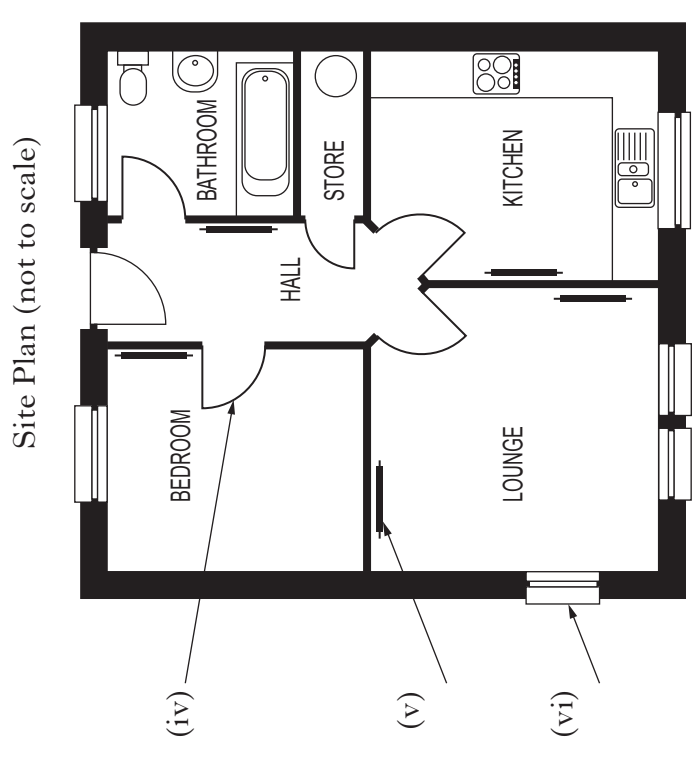
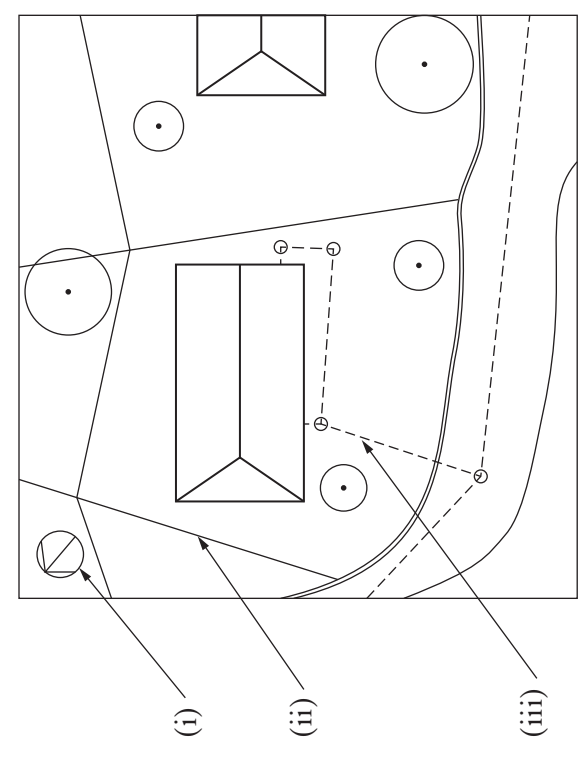
- Explain the purpose of each **type** of graphic and give **one** example of each.
- | | | |
|--------------------|---------------|---|
| <i>Preliminary</i> | Purpose | 1 |
| | Example | 1 |
| <i>Production</i> | Purpose | 1 |
| | Example | 1 |
- (4)

A pictorial view and elevation of a menu holder are shown below. The location pins each Ø30 mm are set apart at 400 mm nominal centres. There are tolerances on both the **sizes and location** of the pins and these are shown on the drawing below.



- (a) Calculate the **maximum** and **minimum** gap between the pins.
- Maximum 1
- Minimum 1
- (b) State **two** reasons why tolerances are an important feature in manufacturing.
- Reason 1 1
- Reason 2 1
- (4)

- (a) Look at the plans shown below and identify the features indicated.
- | | | |
|-------|-------|---|
| (i) | | 1 |
| (ii) | | 1 |
| (iii) | | 1 |



- (b) For each of the above building plan types, state an appropriate British Standard scale.
- Site plan* scale 1
- Floor plan* scale 1
- (c) Name another type of building plan.
- Type of plan 1
- (9)

The first issue of a golf club newsletter produced on a DTP package is shown below.

Marks

Golf News

New Course Opening

We are delighted that the new course is almost ready and we will have the opening ceremony and the first competition on Saturday 21st June.

All members will receive their invite before the 1st of June and tee off times will be posted on the notice board.

The course is a full 18 holes with a total length of 6162 m. It has two par 5 holes, thirteen par 4 holes and three par 3 holes.

There will be competitions held on the first and third Saturday of each month on the course and all are welcome to participate.

The layout of the new course is inspiring with the burn

being used to create a natural barrier between holes. The full course layout is posted to the right of the members changing rooms. Hole 1 and hole 18 are shown below.

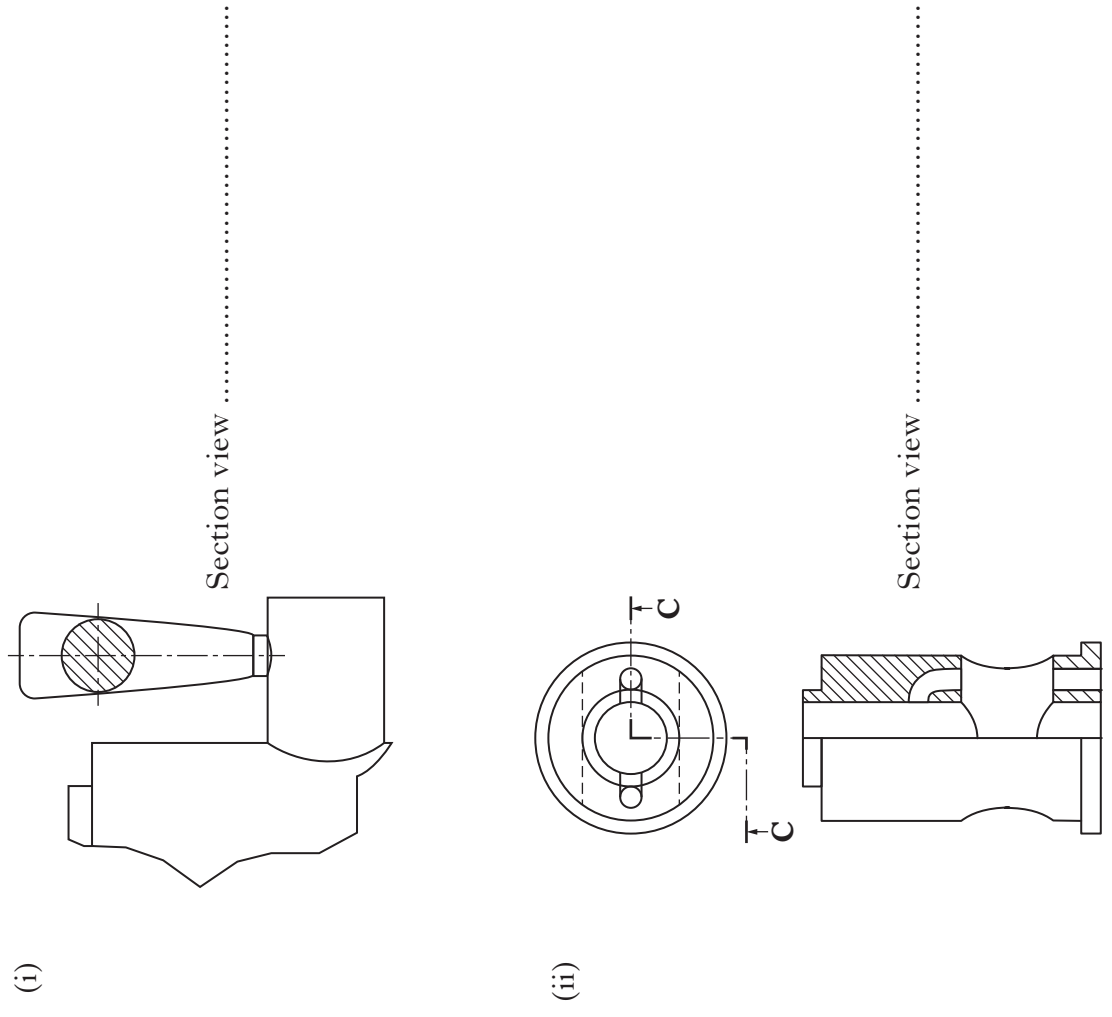
Holes 1 and 18 of new course

Fees
Green fees will be reviewed annually for members and quarterly for non members. Two months notice will be given of any changes being made.
We hope you enjoy the new course.

British Standard conventions are used by the engineering and building industry.

Marks

(a) State the type of sectional view indicated in each drawing.



1

1

(a) State the desktop publishing **terms** for each of the numbered elements.

- (i)
- (ii)
- (iii)
- (iv)
- (v)
- (vi)

2

(b) According to **British Standards** the third angle projection symbol is found in the title block of orthographic drawings.

List **four** other pieces of information that a title block should contain.

- (i)
- (ii)
- (iii)
- (iv)

1

1

1

1

(6)

(b) State the term for the effect used on the text at X “**New Course Opening**”.

.....

(c) Add a footer showing “issue1” to the newsletter.

(d) State the page orientation of the newsletter.

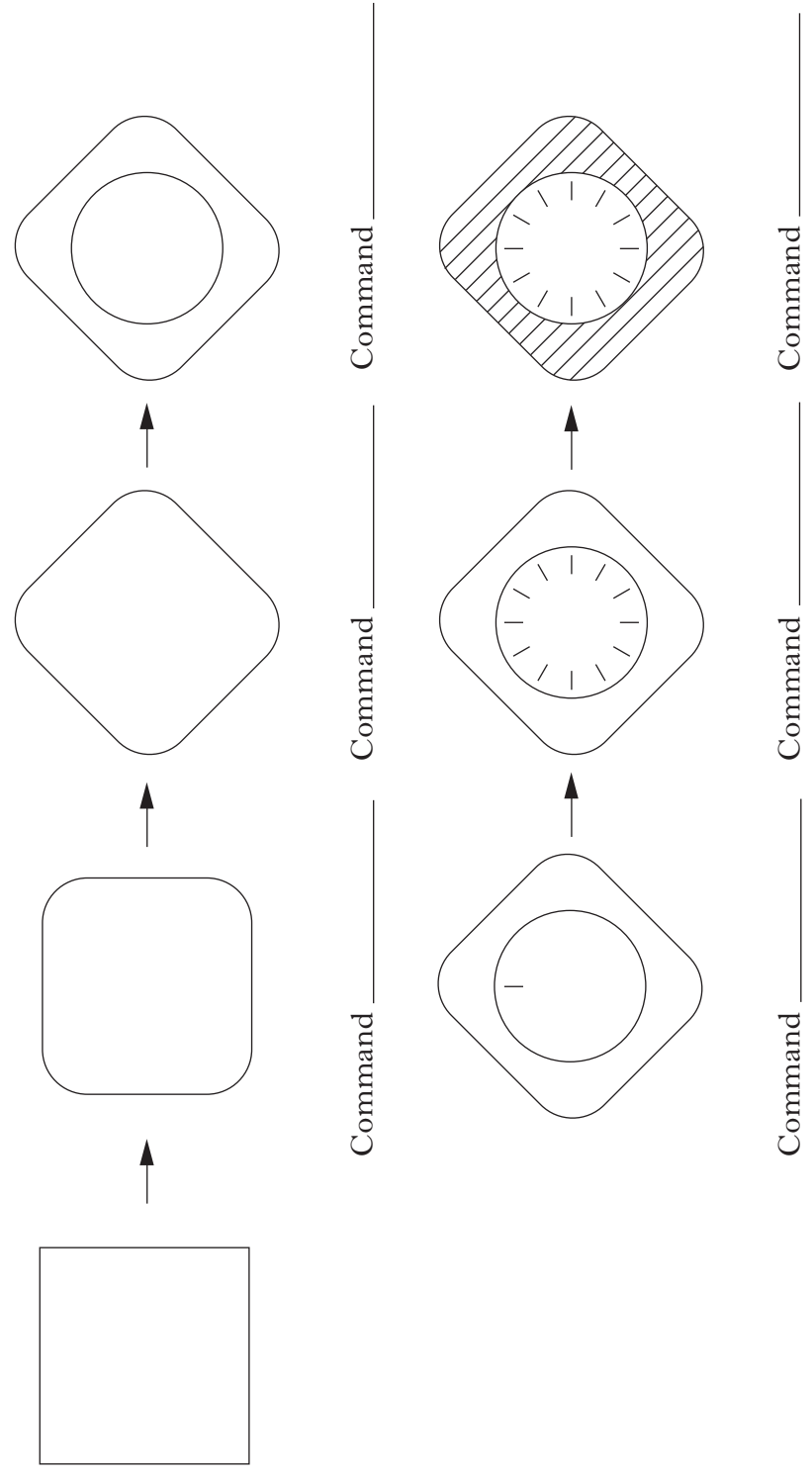
.....

1

(9)

A company of clock makers are using a **CAD** package to produce working drawings of their new range of clocks. *Marks*

(a) State the single CAD command used in each stage of the clock design below.



6

(b) The clock making company are considering purchasing a colour inkjet or a colour laser printer to produce hard copies of their designs.

State **one** advantage of each type of printer.

- Colour Inkjet Printer **1**
-
- Colour Laser Printer **1**
- **(8)**

Use this page if extra space is required for answers to Questions 1 to 6.

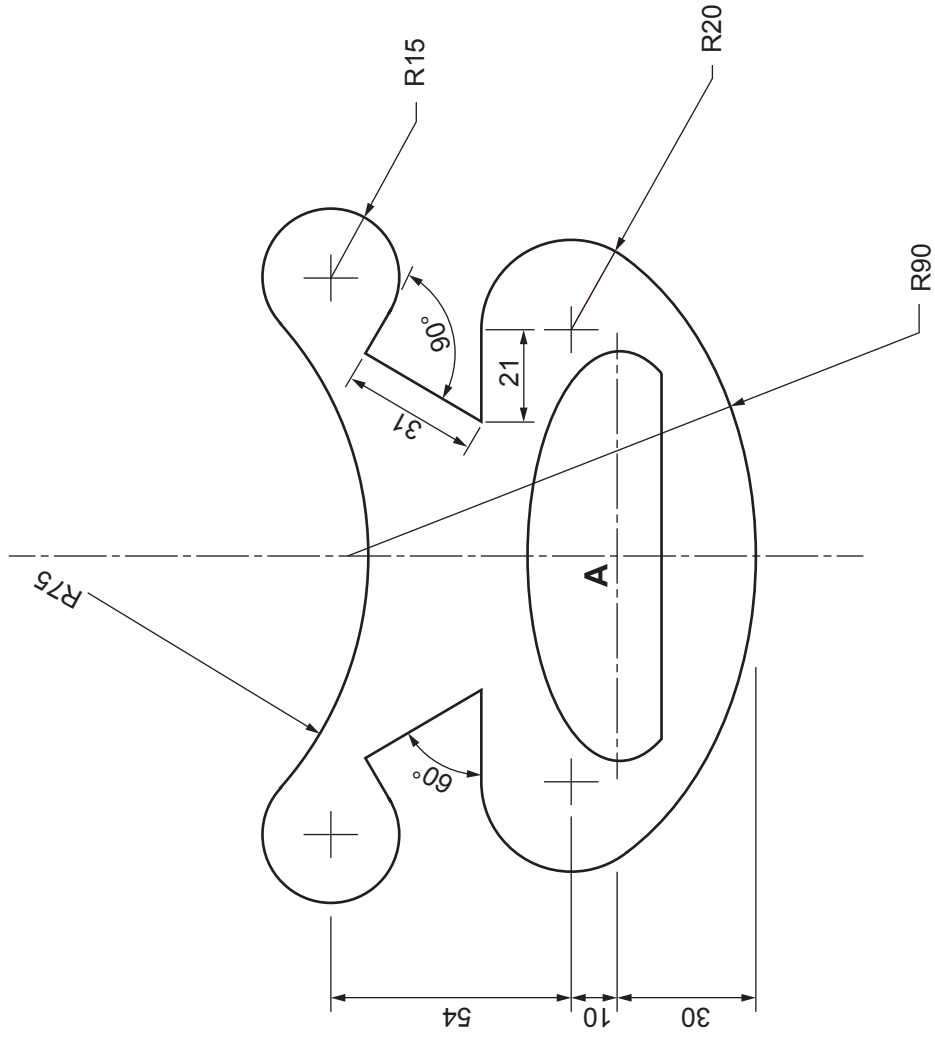
Number each answer clearly.

The outline of a kite handle is shown.

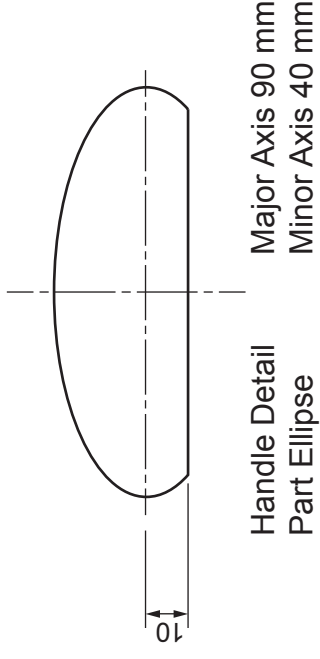
Draw the outline using the given start, to a scale of 1:1.

Show clearly the centres used to draw all the arcs.

Do not show dimensions. (10 marks)

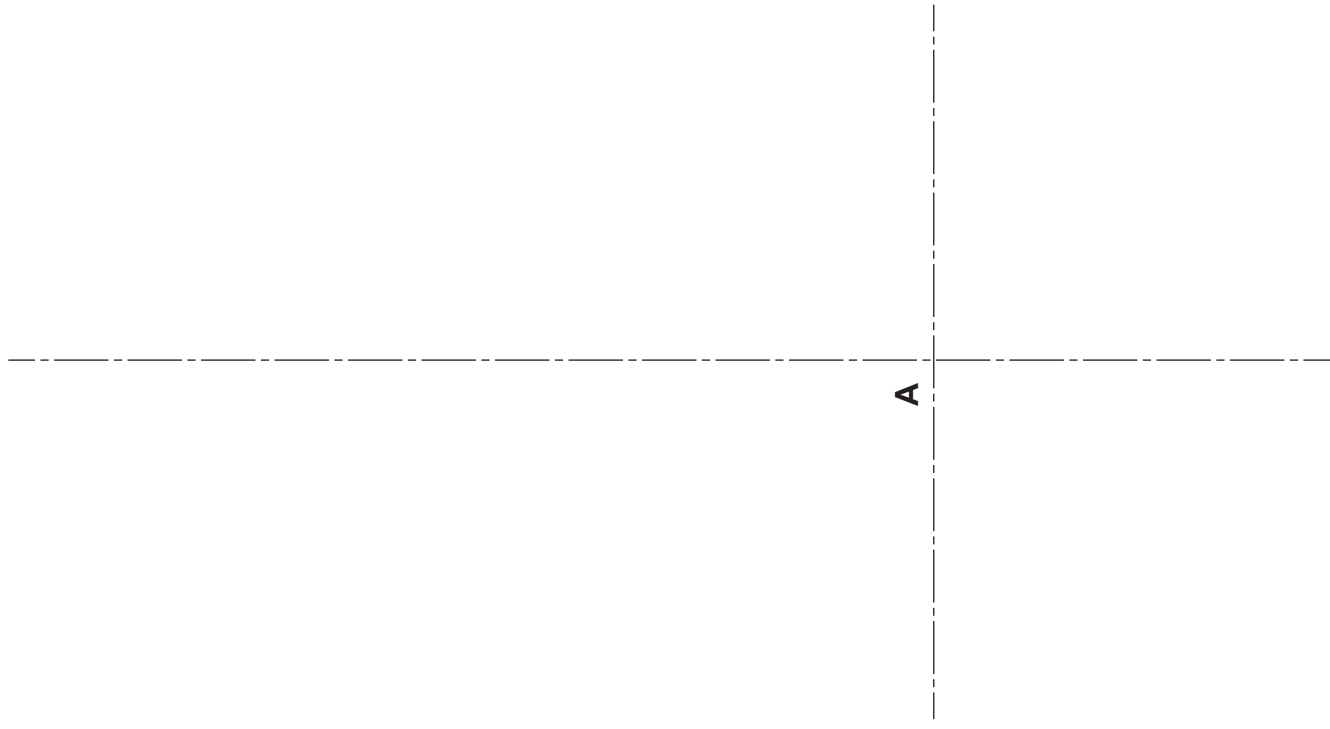


Kite Handle
(NOT TO SCALE)



Handle Detail
Part Ellipse
Major Axis 90 mm
Minor Axis 40 mm

(NOT TO SCALE)



a	
b	
c	
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The elevation and end elevation of an airport security system are given.
Draw a measured 2-point perspective of the security system.

The Spectator Point (**SP**), Plane of Projection (**PP**), Ground Level (**GL**), Eye Level (**EL**) and plan to the same scale are given.

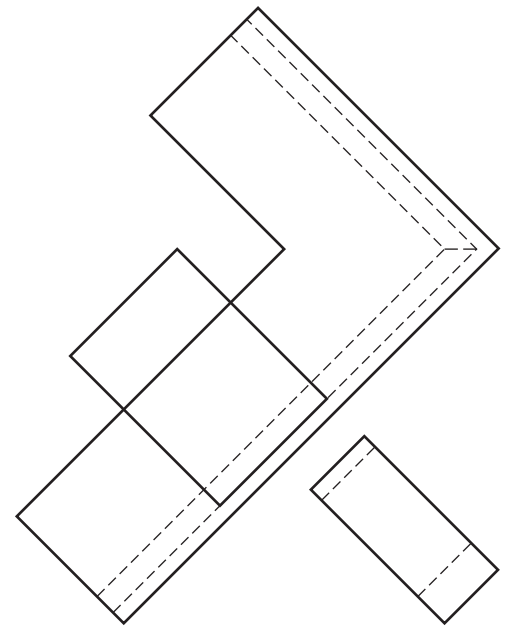
Do not show hidden detail. (20 marks)

EL _____

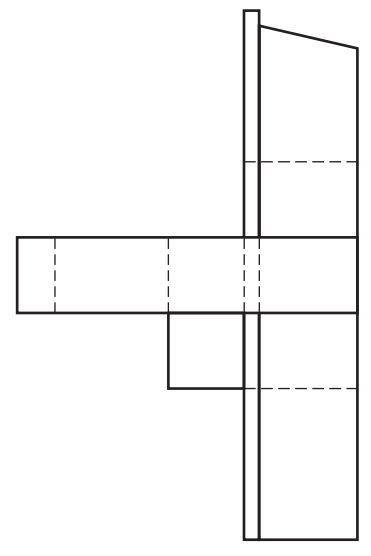
GL _____

PP _____

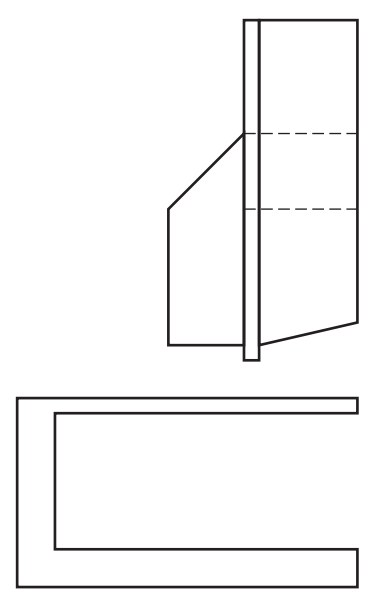
<i>a</i>	
<i>b</i>	
<i>c</i>	
<i>d</i>	
<i>e</i>	
<i>f</i>	
<i>g</i>	
<i>h</i>	
<i>i</i>	
<i>j</i>	
<i>k</i>	
<i>l</i>	
<i>m</i>	
<i>n</i>	



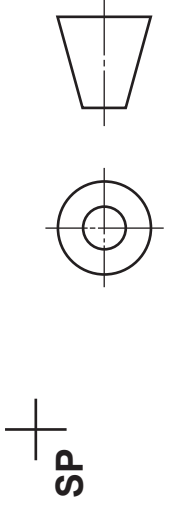
PLAN



END ELEVATION



ELEVATION



9

Section B 9

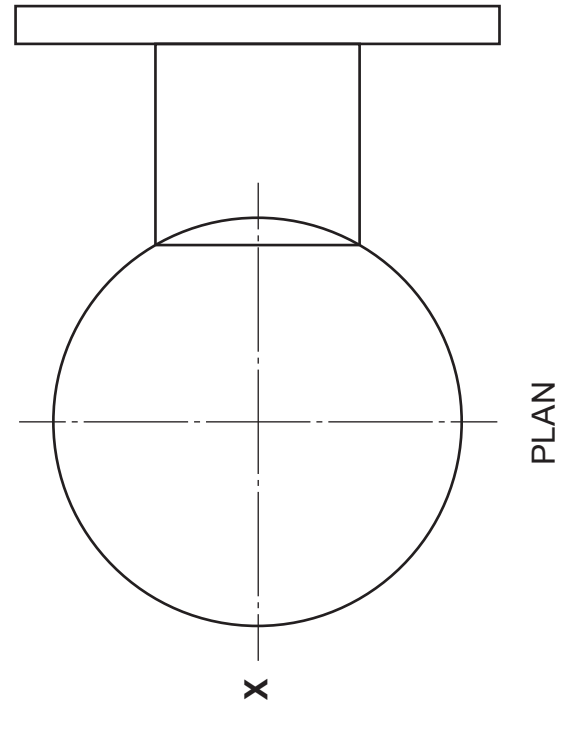
The elevation and plan of a wall light and shade are given.

Draw, in the positions indicated:

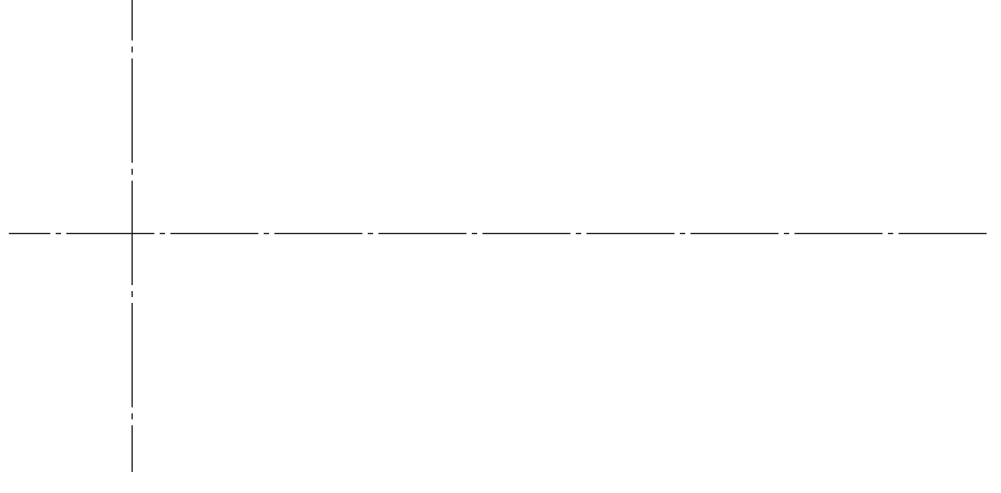
- (a) the end elevation;
- (b) an auxiliary plan;
- (c) a symmetrical half development of the shade part of the light starting at point **X**.

Do not show hidden detail.

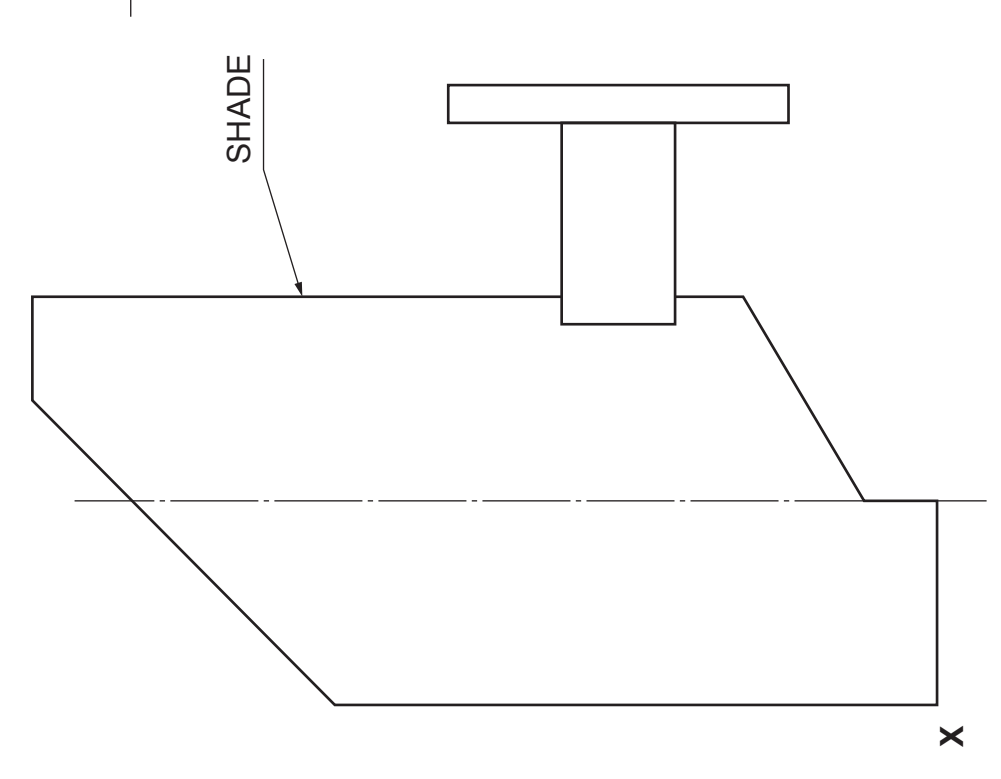
(20 marks)



PLAN



END ELEVATION

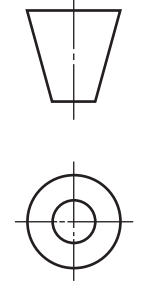
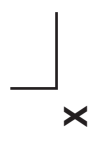


ELEVATION

AUXILIARY PLAN

HALF DEVELOPMENT

a	
b	
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h	
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The orthographic views of parts of a pulley belt mechanism are shown.

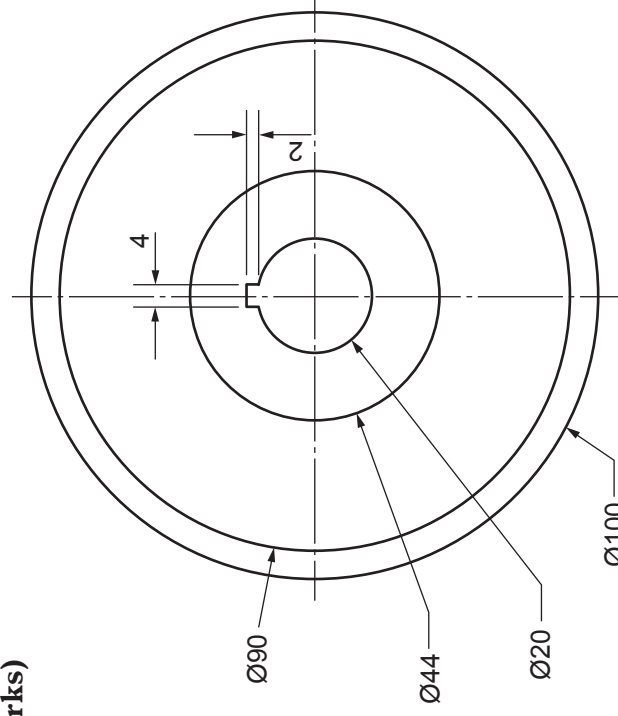
Draw, in the positions indicated on **Worksheet Question 10**:

(a) the end elevation of the assembled components;
Show all hidden detail.

(b) the sectional elevation of all the assembled components on A-A.
Do not show hidden detail.

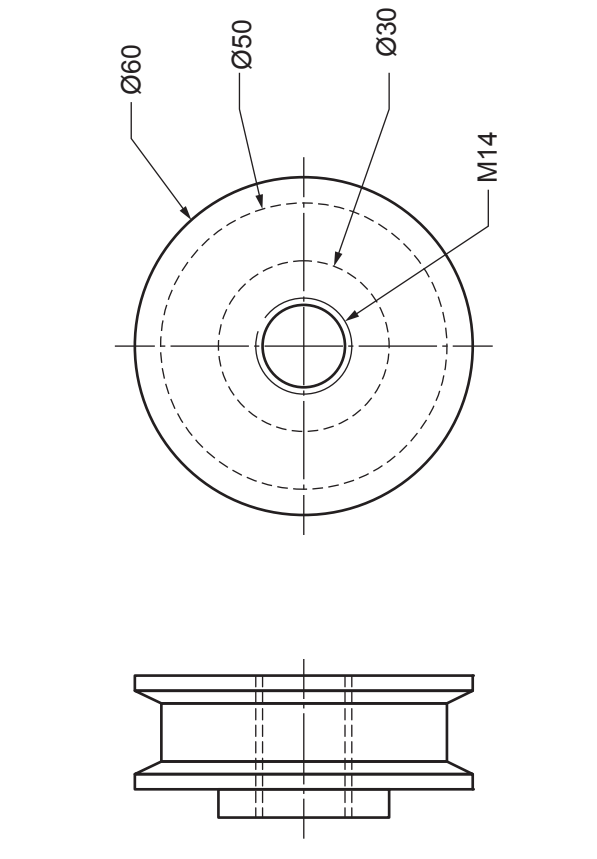
Note: Do not section drive shaft or key.
 Fillets should be drawn freehand.

BELT DRIVE



END ELEVATION

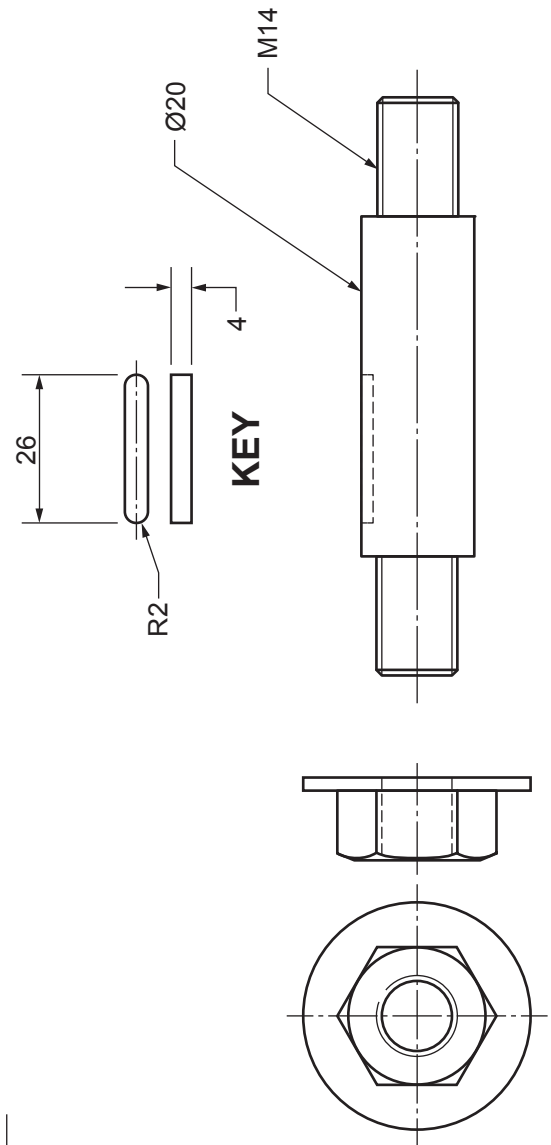
PULLEY



ELEVATION

END ELEVATION

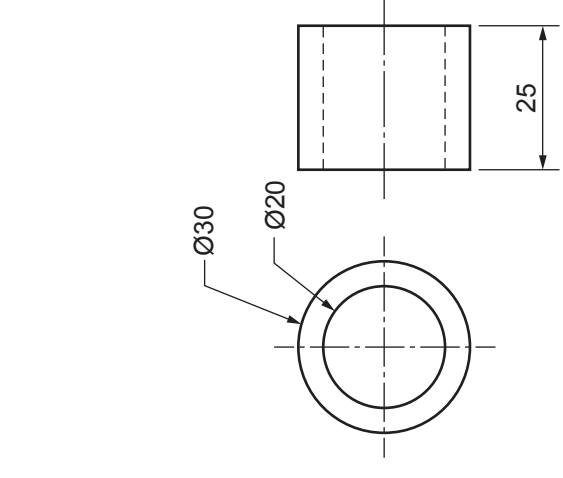
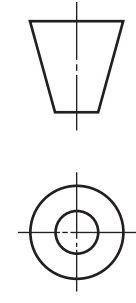
NOT TO SCALE



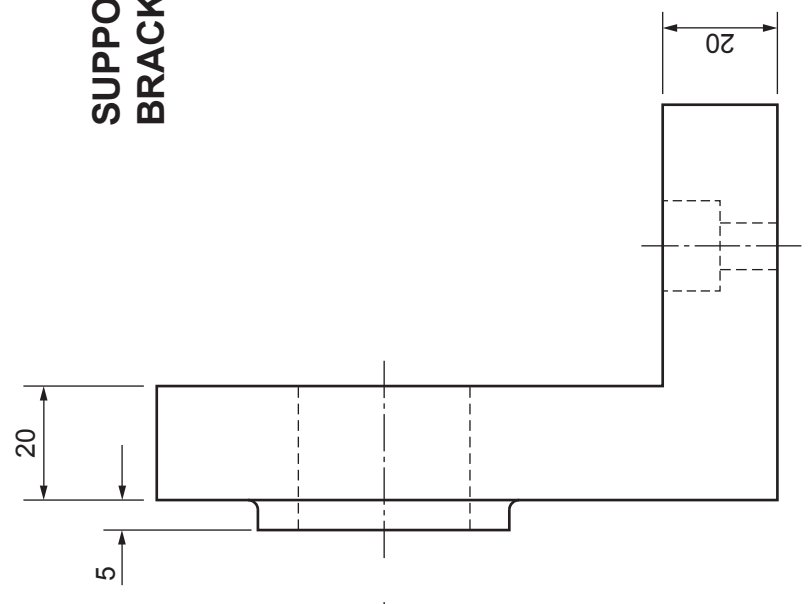
M14 NUT AND WASHER

DRIVE SHAFT

KEY



BUSH

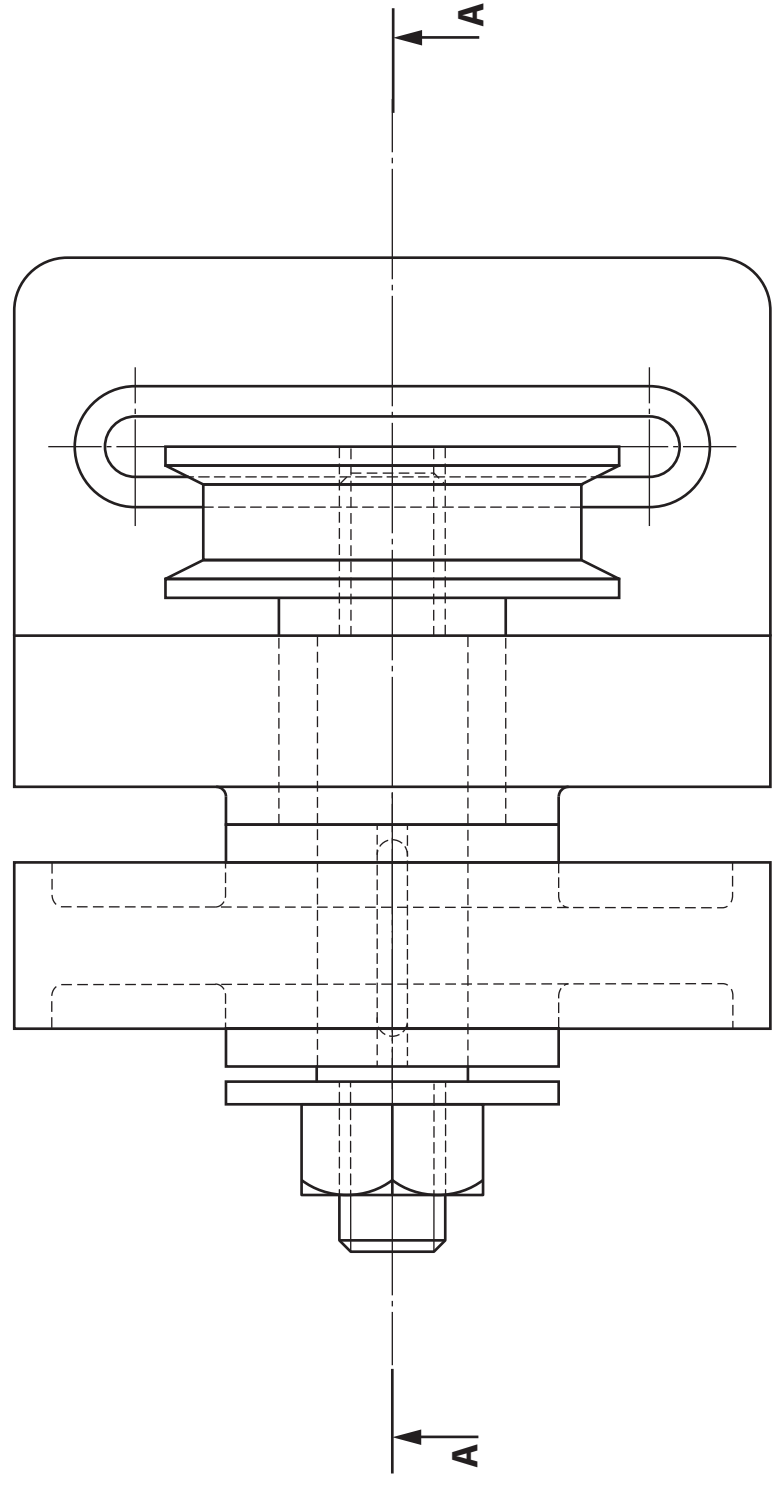


SUPPORT BRACKET

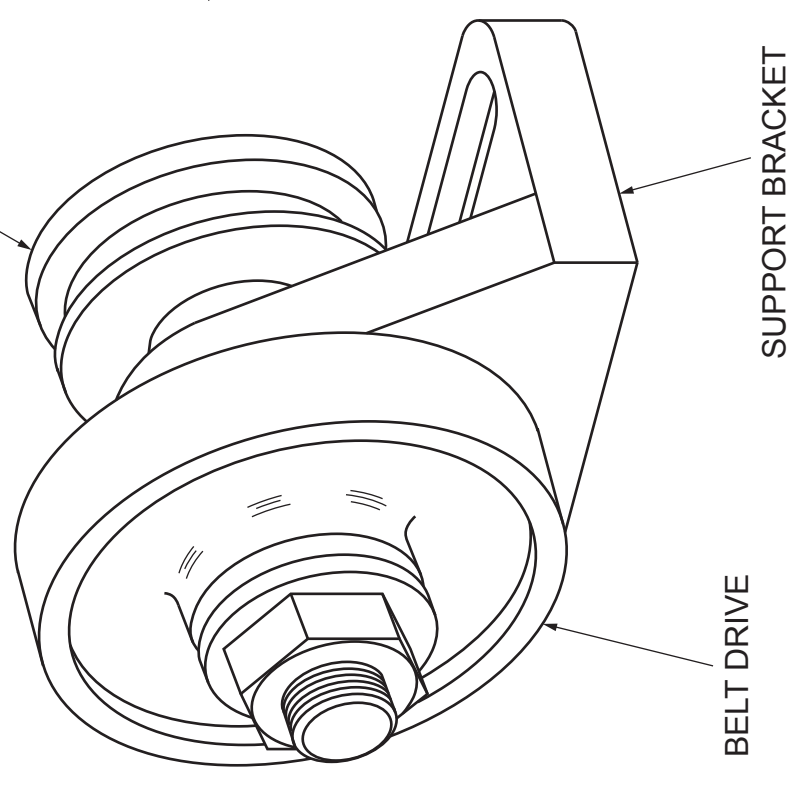
ELEVATION

END ELEVATION

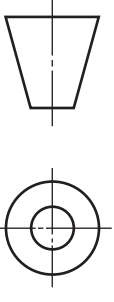
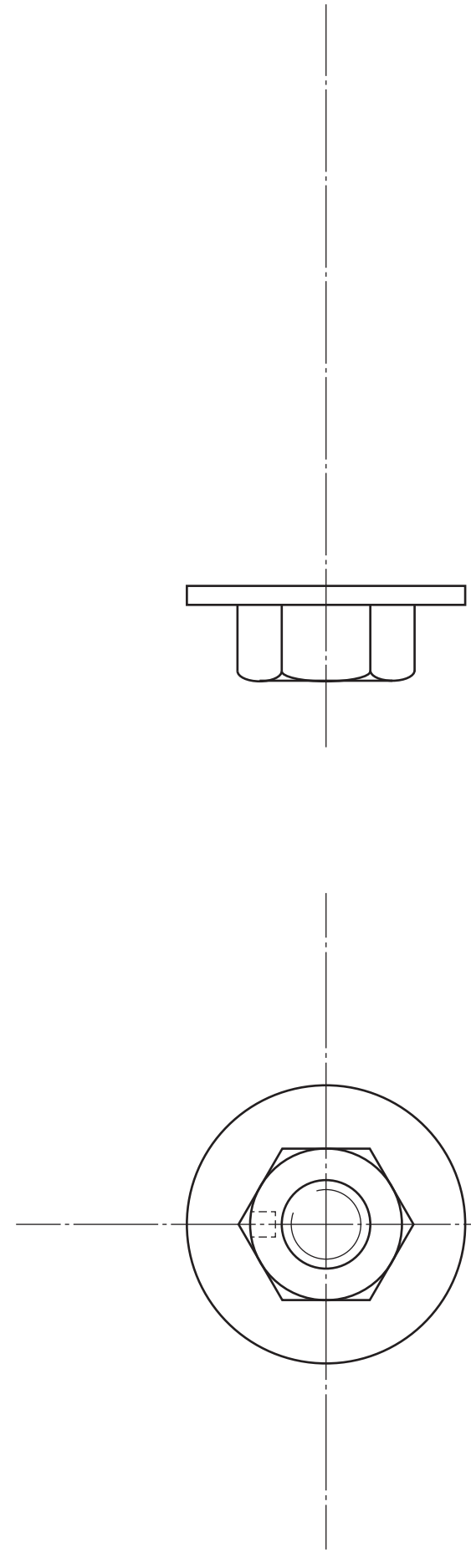
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PLAN



PICTORIAL VIEW
(Not to scale)



END ELEVATION

SECTIONAL ELEVATION A-A

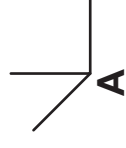
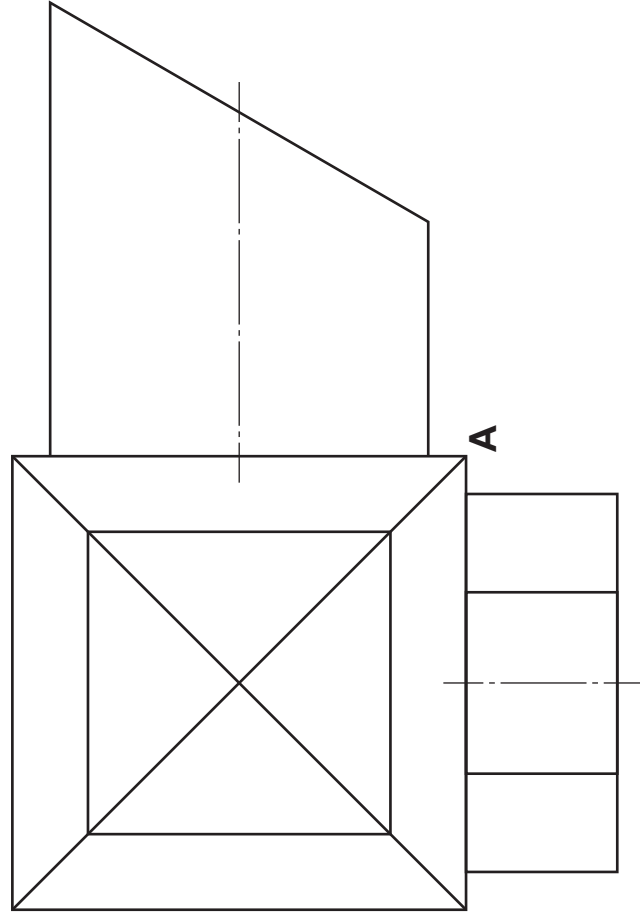
The plan, elevation and end elevation of a child's play tunnel are given.

Draw, to the same scale and ignoring the thickness of the material:

a **cabinet oblique** view of the play tunnel using the given start at **A**.

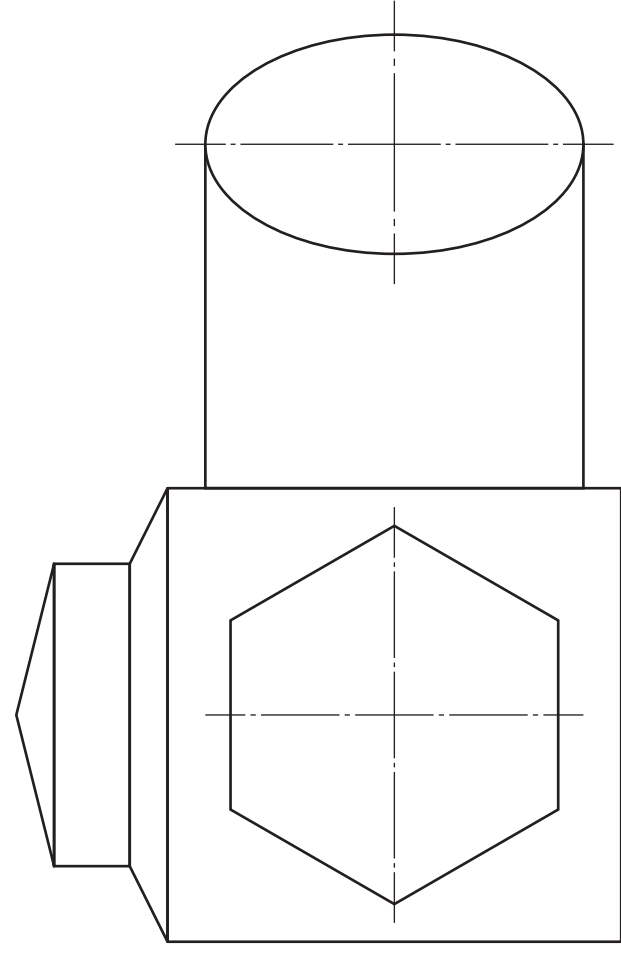
Do not show hidden detail.

Lines drawn at 45° should be drawn half full size. (20 marks)



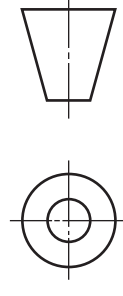
OBLIQUE

PLAN



ELEVATION

END ELEVATION

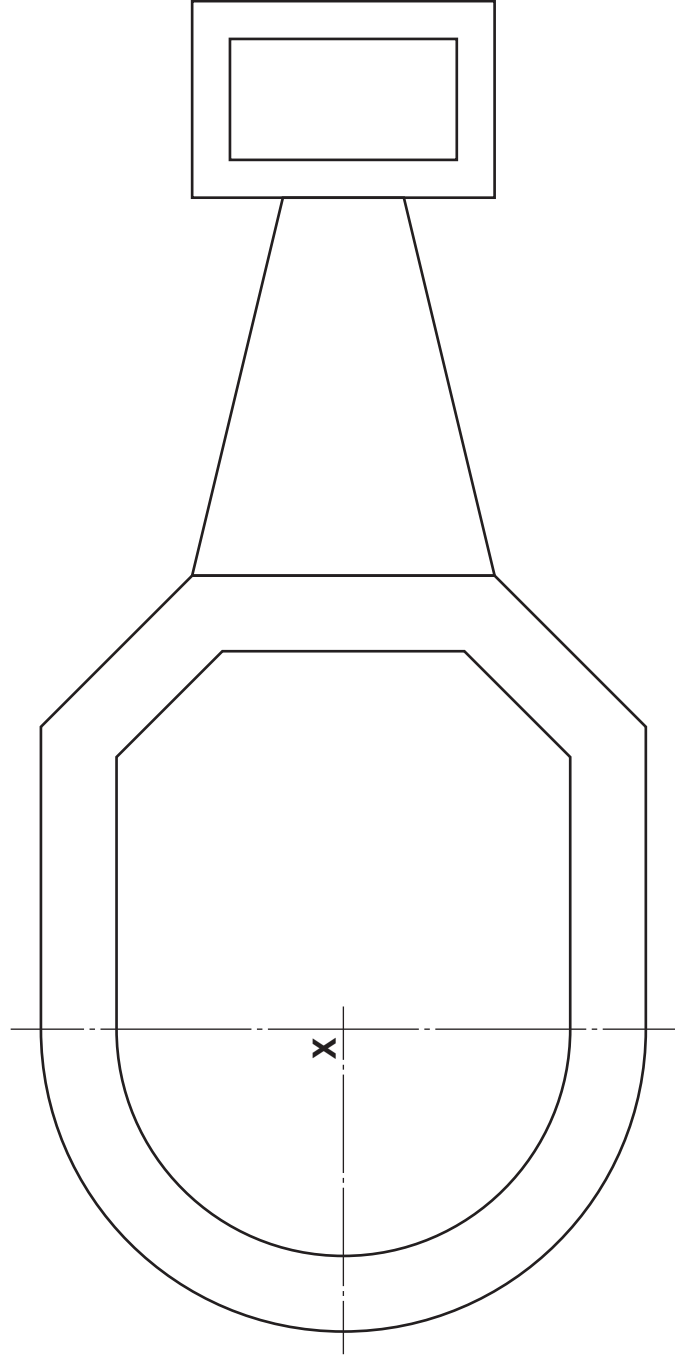


a	
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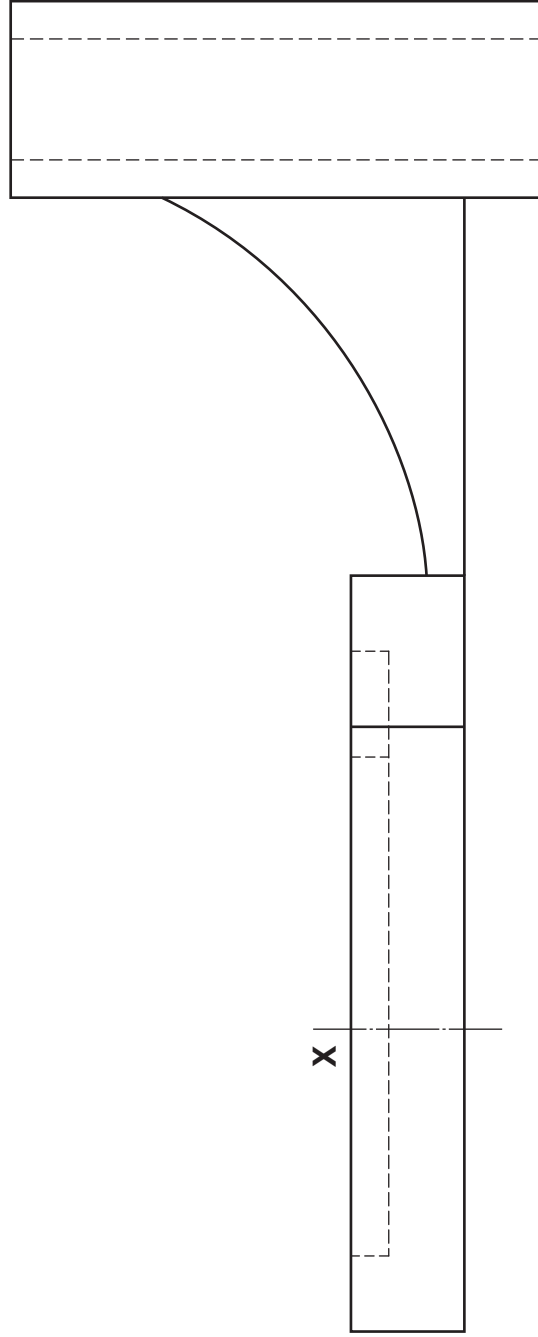
The elevation and plan of a soap dish are given.

Draw, an isometric view of the soap dish using the given start at X.

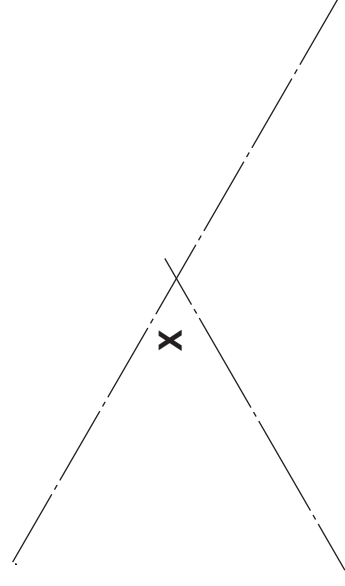
Do not show hidden detail. (20 marks)



PLAN

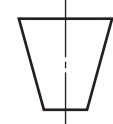
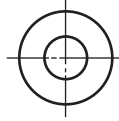


ELEVATION



ISOMETRIC

a	
b	
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