



Junior Certificate Examination 2007

Technical Graphics
Ordinary Level
Section B
(280 Marks)

Monday 18 June
Morning 9:30 - 12:00

Instructions

- (a) Answer **any four** questions. All questions carry equal marks.
- (b) The number of the question must be distinctly marked by the side of each answer.
- (c) Work on **one side** of the answer paper only.
- (d) Write your examination number on each sheet of paper used.

SECTION B. Answer **any four** questions. All questions carry equal marks.

1

The figure shows the outline of a **Camera Case**.

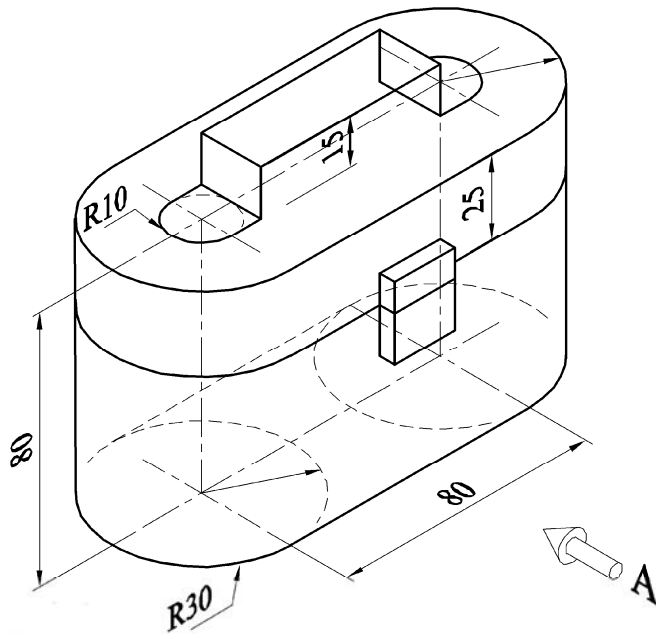
Draw:

- (a) A front elevation looking in the direction of arrow **A**.
- (b) A plan projected from the front elevation.

Insert **any four** dimensions.

Note:

Use your own dimensions for the catch.



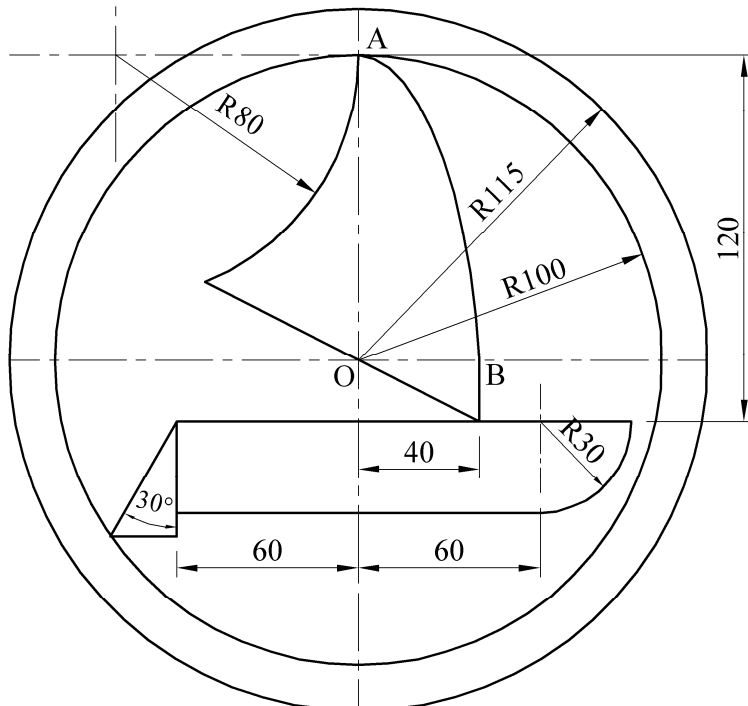
2

The figure shows the design of a logo for a sailing club.

The sail is based on a quarter-ellipse, an arc and lines as shown.

Half the **major axis OA** of the ellipse is 100 mm and half the **minor axis OB** is 40 mm.

Draw the given design showing clearly all construction lines.

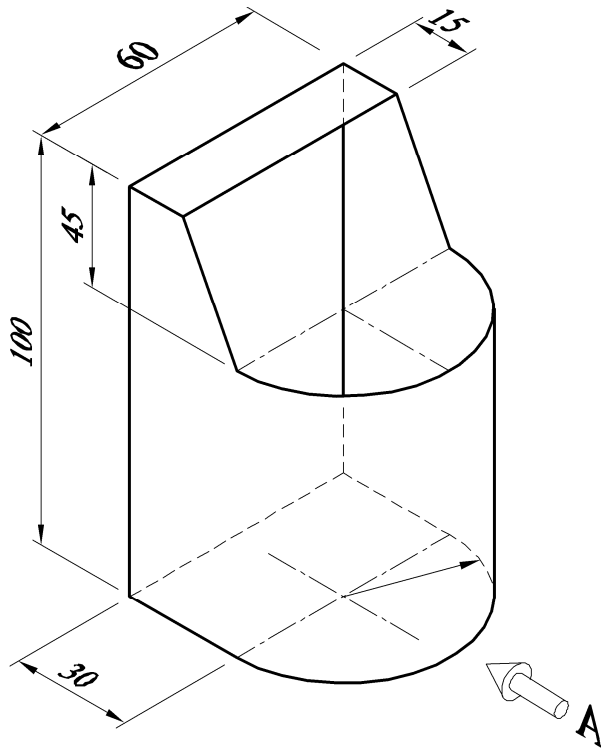


3

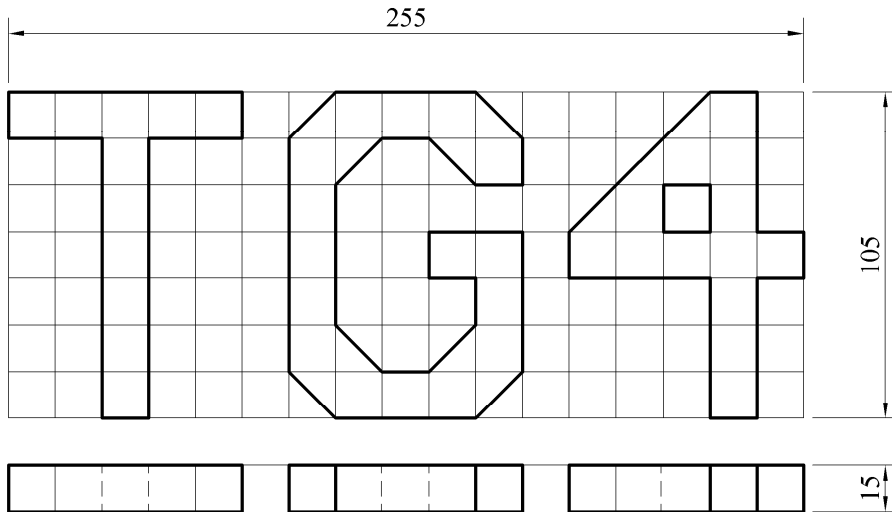
The figure shows the outline of an open container.

Draw:

- (a) A front elevation looking in the direction of arrow A.
- (b) A plan projected from the elevation.
- (c) The complete **surface development** of the open container.



4



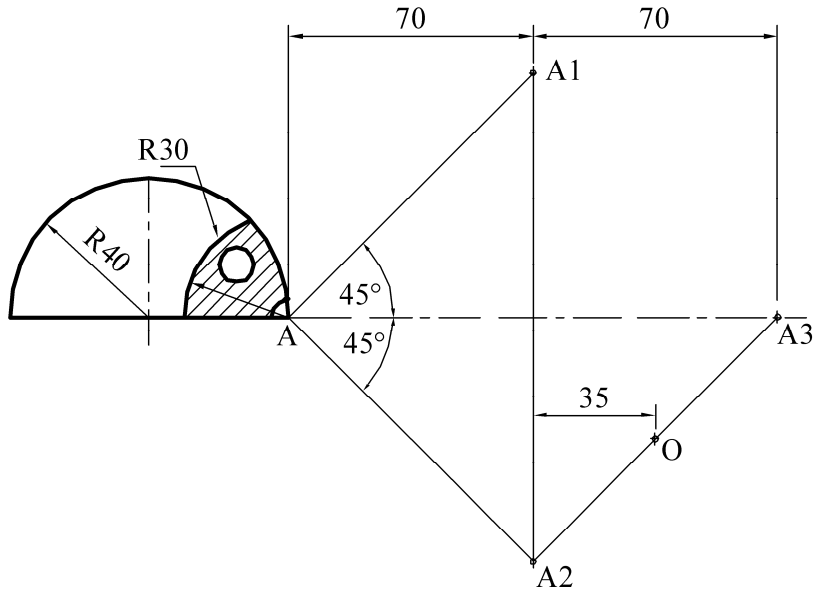
The figure shows the elevation and plan of the nameplate of an Irish television channel. The grid is made up of 15 mm squares.

Draw **one** of the following views:

- (a) An **isometric** view;
- or**
- (b) An **oblique** view of the nameplate.

Note: The solution must be presented on standard drawing paper.

5



Draw the given figure.

Note: Use your own dimensions for the eye.

Locate the points **A1**, **A2**, **A3** and **O**.

Find the image of the given figure under the following transformations:

- (a) From point A to A1 by a **translation**;
- (b) From point A1 to A2 by an **axial symmetry** in the line **A-A3**;
- (c) From point A2 to A3 by a **central symmetry** in the point **O**.

6

The figure shows a design for a boot.

Reproduce the given figure, showing clearly how to find the centres of the circles shown.

Show all construction lines and points of contact.

