



Leaving Certificate Examination, 2023

Design & Communication Graphics
Ordinary Level

Section A (60 marks)

Centre No.

Thursday, 22 June
Morning, 9:30 - 12:30

This examination is divided into three sections:

- SECTION A (Core - Short Questions)
SECTION B (Core - Long Questions)
SECTION C (Applied Graphics - Long Questions)

- SECTION A**
- Four questions are presented.
 - Answer **any three** questions on the A3 sheet overleaf.
 - All questions in Section A carry **20 marks** each.

- SECTION B**
- Three questions are presented.
 - Answer **any two** questions on drawing paper.
 - All questions in Section B carry **60 marks** each.

- SECTION C**
- Five questions are presented.
 - Answer **one** question (i.e. the option you have studied) on drawing paper.
 - All questions in Section C carry **60 marks** each.

General Instructions:

- *Construction lines must be shown on all solutions.*
- *Write the question number distinctly on the answer paper in Sections B and C.*
- *Work on one side of the drawing paper only.*
- *All dimensions are given in metres or millimetres.*
- *Write your Examination number in the box below and on all other sheets used.*

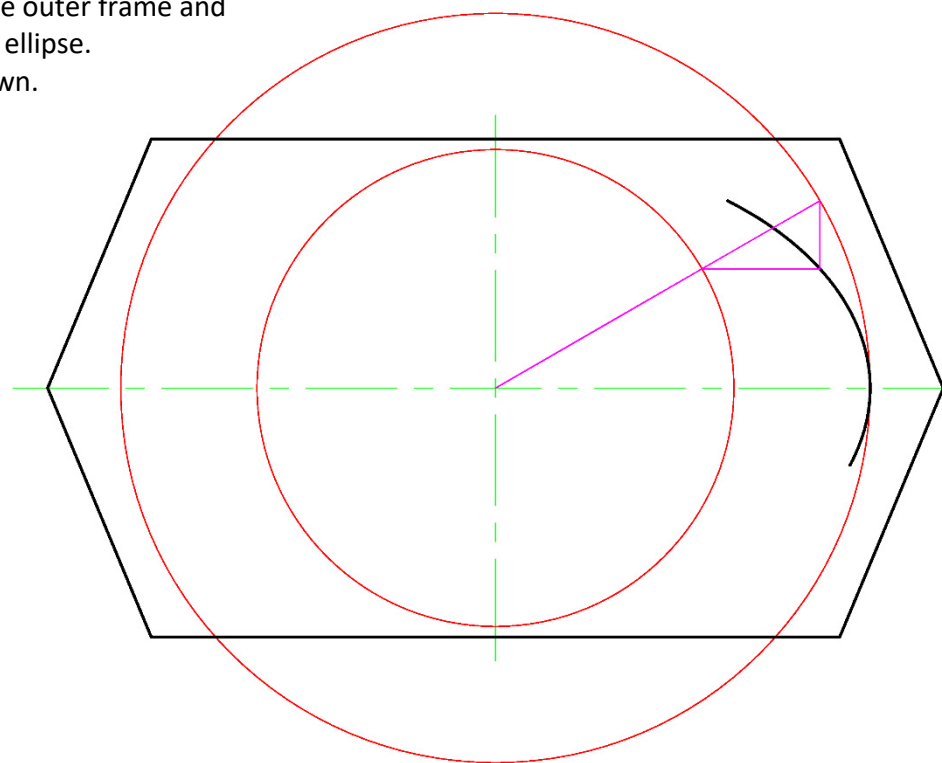
Examination Number

SECTION A - Core - Answer any three of the questions on this A3 sheet.

A-1. The image below shows an elliptical pool table from a science museum. The top of the pool table consists of an ellipse and an outer frame.

The drawing on the right shows the outer frame and the major and minor circles of the ellipse. A portion of the ellipse is also shown.

- (a) Locate the remaining points on the ellipse.
- (b) Draw the curve.
- (c) Locate the focal points of the ellipse.

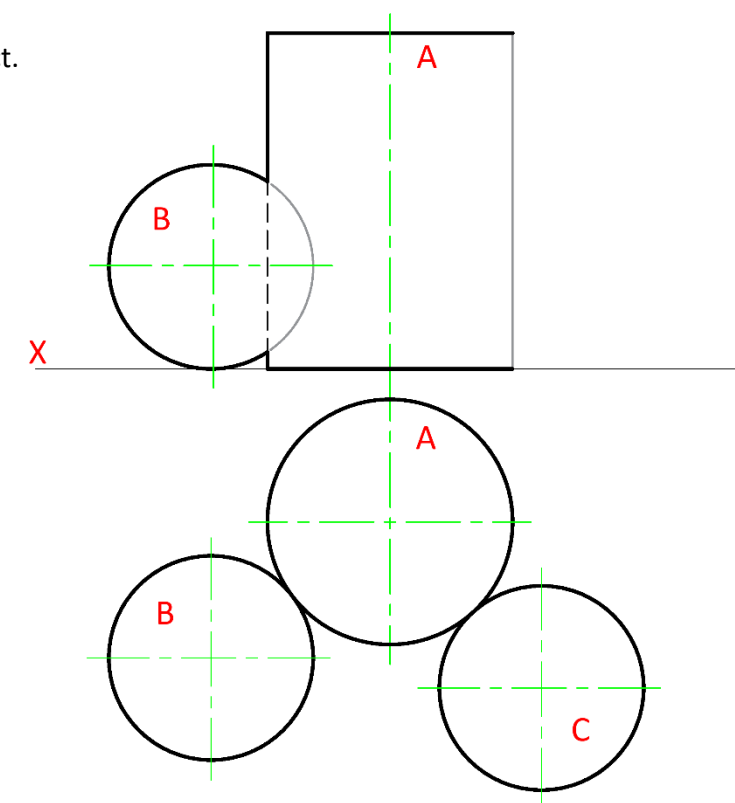
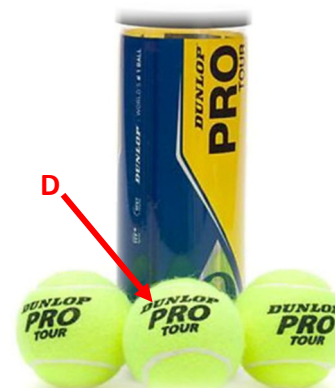


A-3. The image below shows three tennis balls and a cylindrical container **A** which are in mutual contact.

The drawing on the right shows the partially completed elevation and plan of similar solids.

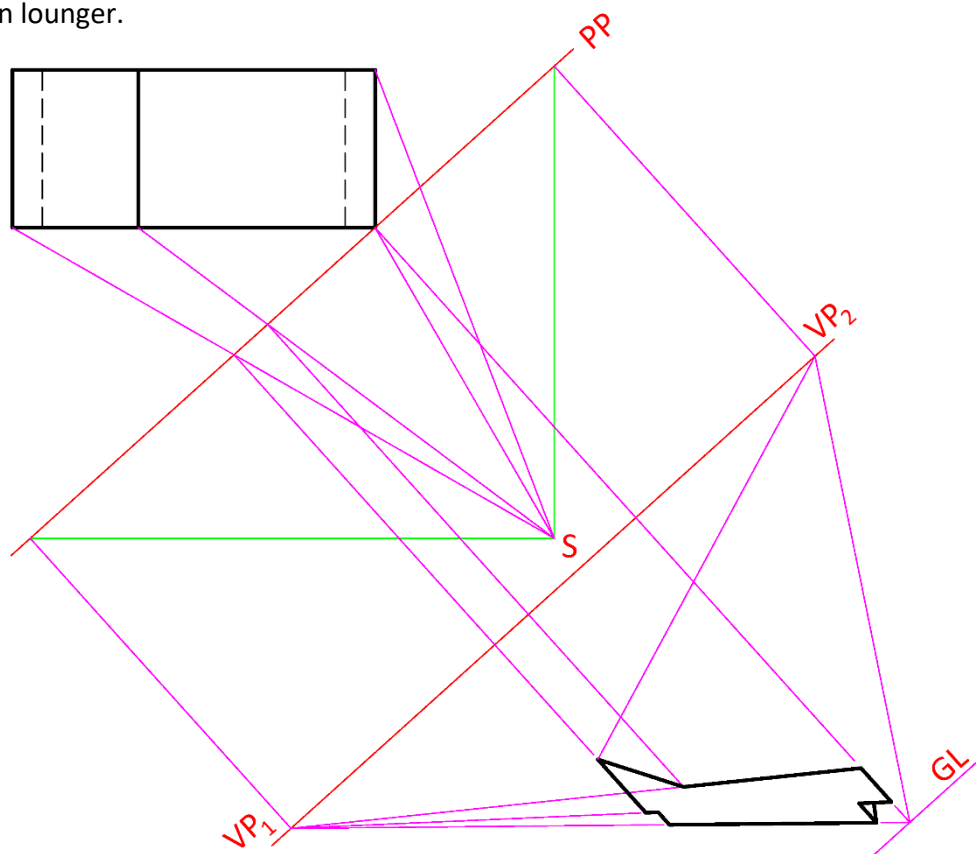
The spherical tennis balls **B**, **C**, and **D** are all of the same diameter.

- (a) Draw the elevation of sphere **C**.
- (b) Draw the elevation and plan of sphere **D** which is in contact with sphere **B** and sphere **C**.



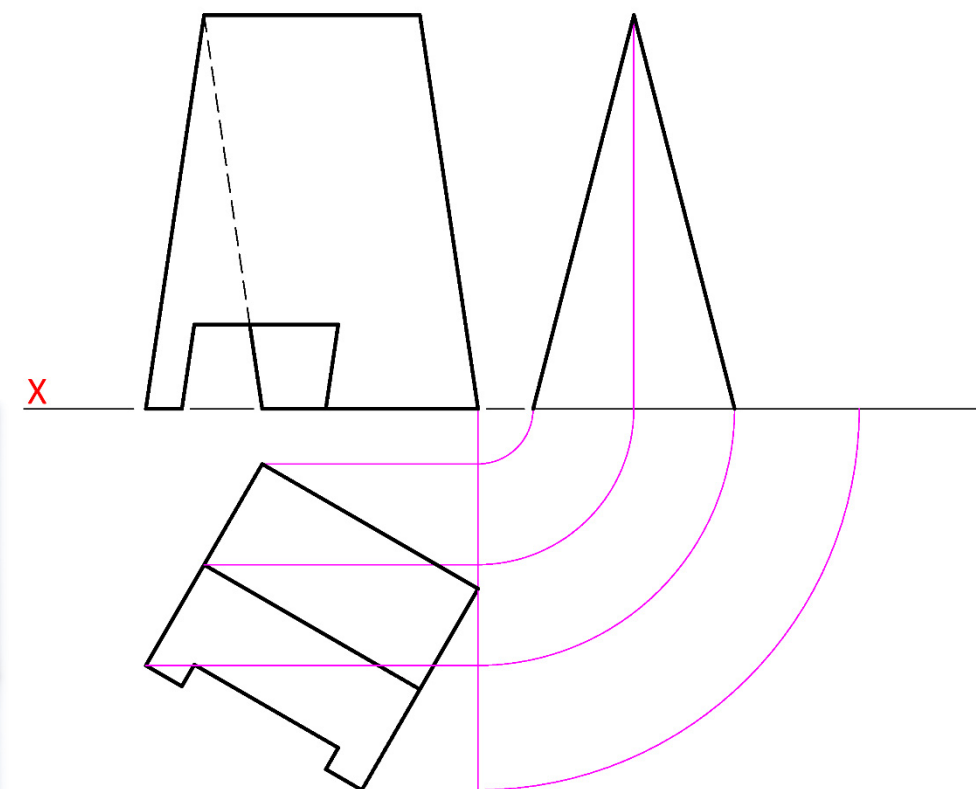
A-2. The image below shows a sun lounger. The drawing shows the plan and partially completed perspective view of a similar sun lounger.

Complete the perspective drawing of the sun lounger.



A-4. The image below shows a caution sign. The drawing on the right shows the plan, partially completed elevation and partially completed end view of a similar sign.

- (a) Complete the elevation.
- (b) Complete the end view.



This Contour Map is part of Section C and should only be used for the answering of the Geologic Geometry Option (Question C-1).

(Scale 1:1000)

