



Leaving Certificate Examination, 2014

Design & Communication Graphics

Ordinary Level

Section A (60 marks)

Wednesday, 18 June
Afternoon, 2:00 - 5:00

This examination is divided into three sections:

SECTION A (Core - Short Questions)

SECTION B (Core - Long Questions)

SECTION C (Applied Graphics - Long Questions)

- Four questions are presented.

SECTION A • Answer **any three** on the A3 sheet overleaf.

- All questions in Section A carry **20 marks** each.

- Three questions are presented.

SECTION B • Answer **any two** on drawing paper.

- All questions in Section B carry **45 marks** each.

- Five questions are presented.

SECTION C • Answer **any two** (i.e. the options you have studied) on drawing paper.

- All questions in Section C carry **45 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.

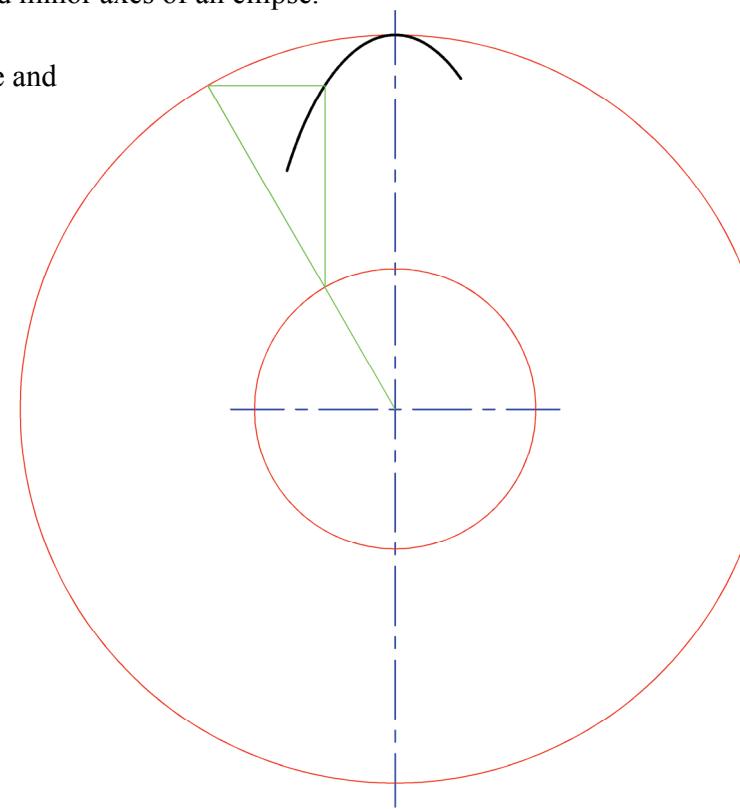
Examination Number:

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

- A-1.** The 3D graphic below shows a pair of earrings based on elliptical shapes.

The drawing on the right shows the major and minor axes of an ellipse. A portion of the curve is already drawn.

- Locate the remaining points on the curve and draw the ellipse.
- Locate the focal points of the ellipse.

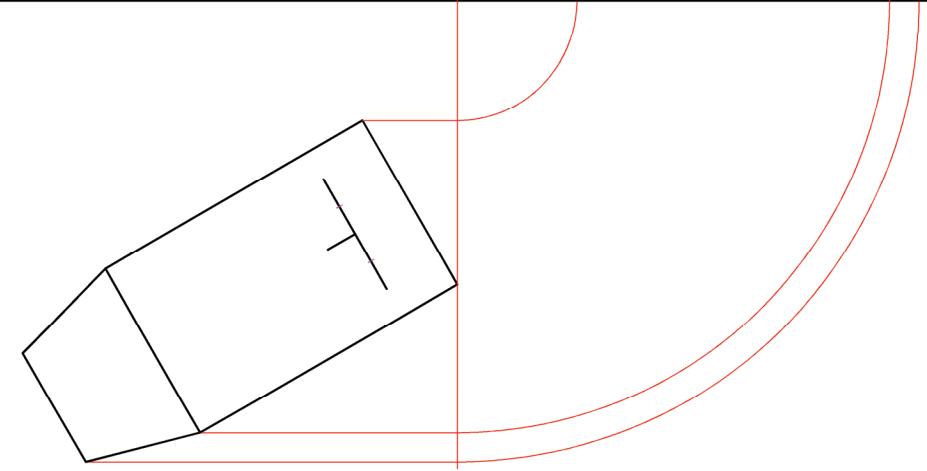
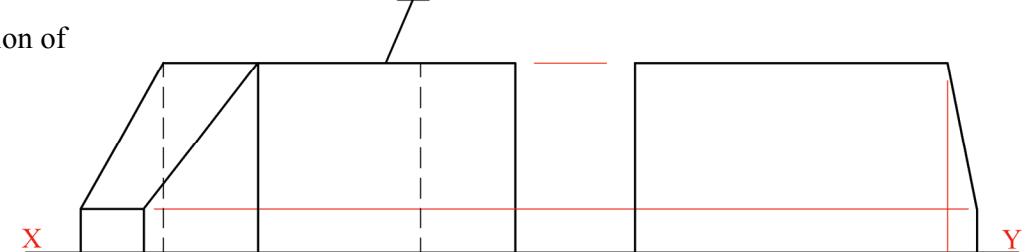


- A-2.** The 3D graphic below shows one section of a *Luas* tram. The plan, elevation and partially completed end elevation of the outline of the tram are shown on the right.

- Complete the end elevation of the tram.



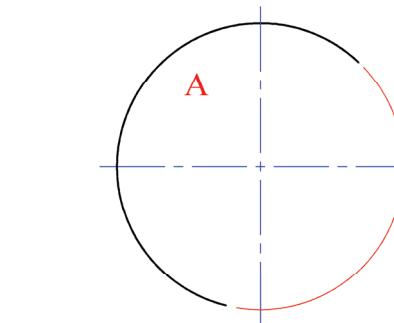
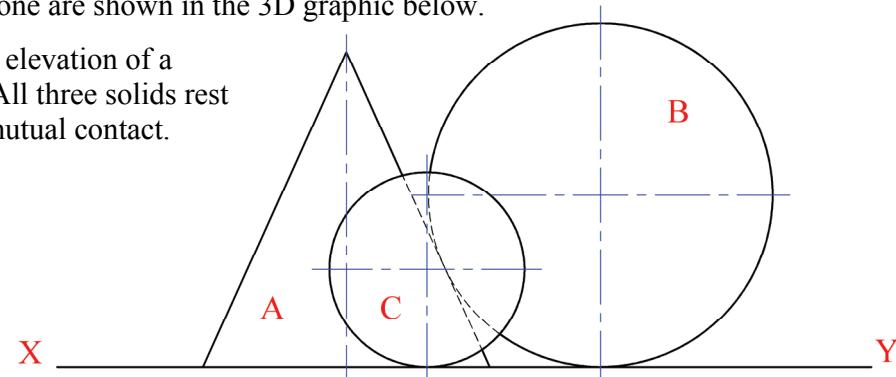
- Draw the end elevation of the power supply connector on the top of the tram.



- A-3.** Toys in the form of spheres and a cone are shown in the 3D graphic below.

The drawing on the right shows the elevation of a cone **A** and two spheres, **B** and **C**. All three solids rest on the horizontal plane and are in mutual contact. The plan of cone **A** is also shown.

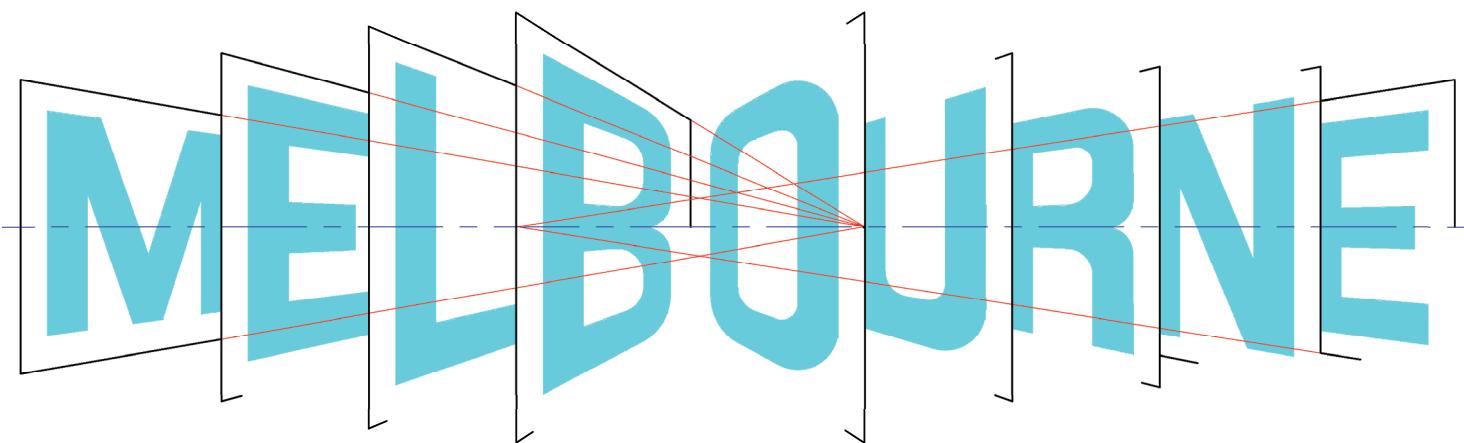
- Draw the plan of sphere **B**.
- Draw the plan of sphere **C**.

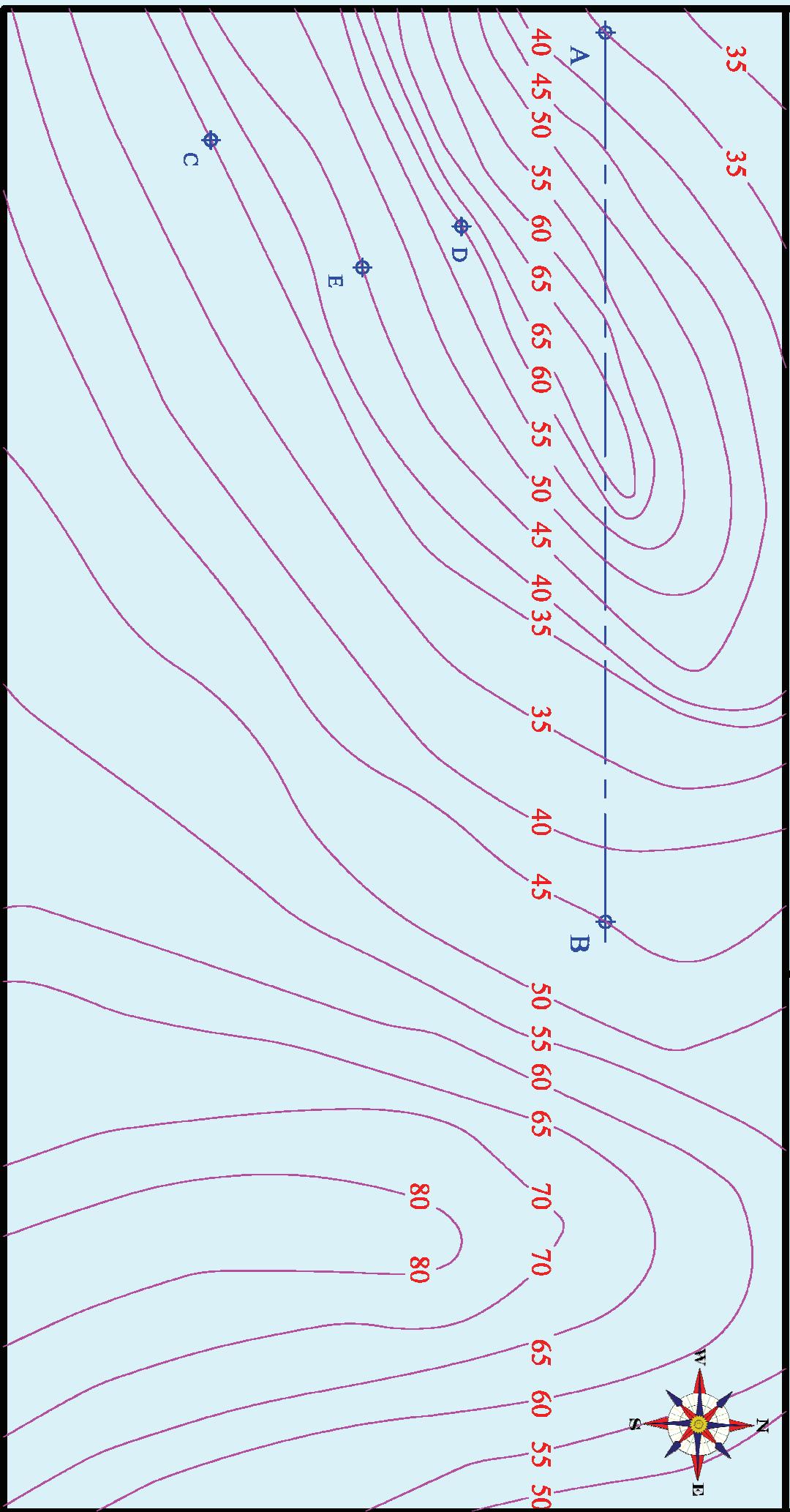


- A-4.** The 3D graphic on the right shows the “MELBOURNE” logo displayed on a billboard during the *Australian Open* tennis championship. The logo is designed to look like pages from a book.

The partially completed drawing below shows how the logo is constructed using two vanishing points.

Complete the drawing.





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)