An Roinn Oideachais agus Eolaíochta

S 60 B

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JUNIOR CERTIFICATE EXAMINATION, 1999 TECHNICAL GRAPHICS — ORDINARY LEVEL

THURSDAY 17 JUNE — MORNING, 9.30 — 12.00

SECTION B — 280 MARKS

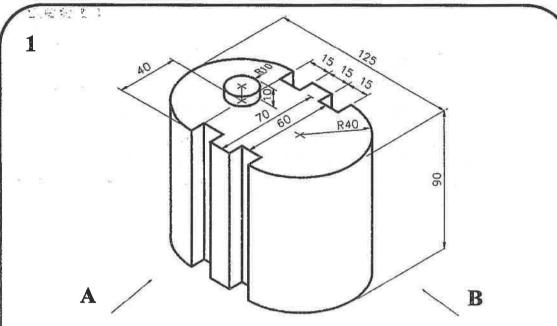
INSTRUCTIONS FOR SECTION B

- (a) Any four questions to be answered.
- (b) All questions in this Section carry equal marks.
- (c) The number of the question must be distinctly marked by the side of each question.
- (d) Work on one side of the paper only.
- (e) Examination number must be distinctly marked on each sheet of paper used.



SECTION B (ANSWER ANY FOUR QUESTIONS- ALL QUESTIONS CARRY EQUAL MARKS)

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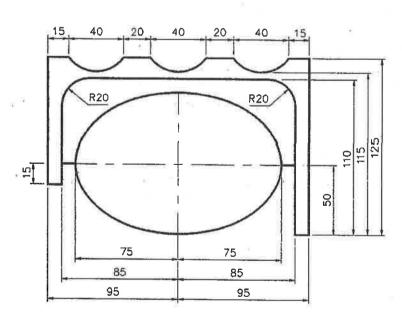


The figure shows the outline of an OIL STORAGE TANK. Draw FULL SIZE :-

- (a) A front elevation looking in the direction of arrow A.
- (b) An end elevation looking in the direction of arrow B.
- (c) A plan projected from the front elevation.

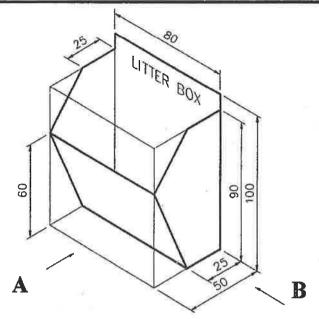
Insert any FOUR dimensions.

2



The figure shows the design for a SHOP SIGN in the shape of an ELLIPSE. The Major Axis is 150mm and the Minor Axis 100mm. Draw FULL SIZE the given design showing clearly all construction lines and points of contact.

3

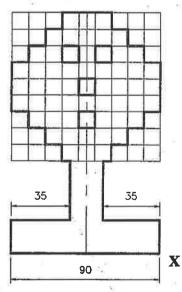


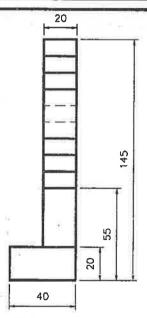
The figure shows the outline of a LITTER BOX.

Draw FULL SIZE the following views :-

- (a) A front elevation looking in the direction of arrow A.
- (b) An end elevation looking in the direction of arrow B.
- (c) The DEVELOPMENT of the LITTER BOX.

A





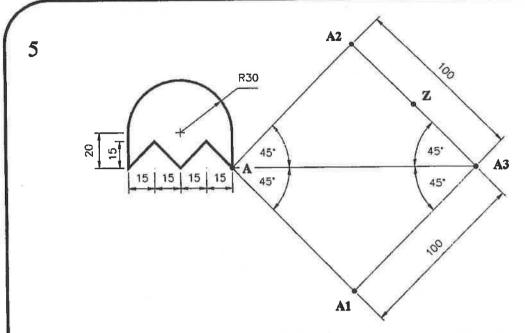
The figure shows a **COMPUTER GAME SHOW AWARD**. Each square on the graph is 10mm x 10mm. Draw FULL SIZE **ONE** of the following views:-

(a) An ISOMETRIC VIEW of the Award, with Point X the lowest point.

OR

(b) An OBLIQUE VIEW.

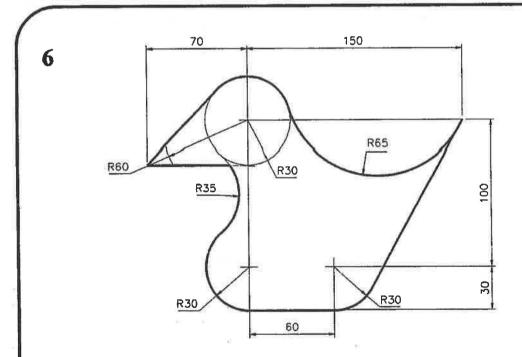
The solution must be presented on standard drawing paper.



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Draw the given figure. Locate the image points A1, A2, A3 and, then, 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 AA3,
- (c) From point A2 to A3 by a CENTRAL SYMMETRY in the point Z.



A design for a CHILD'S TOY is shown. Reproduce the given figure, showing clearly all constructions and points of contact.