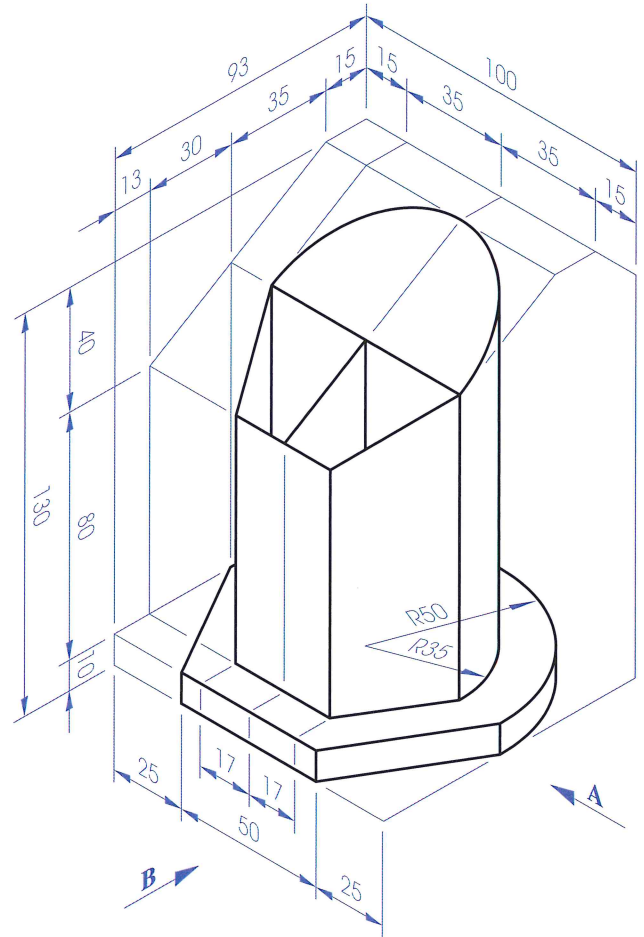
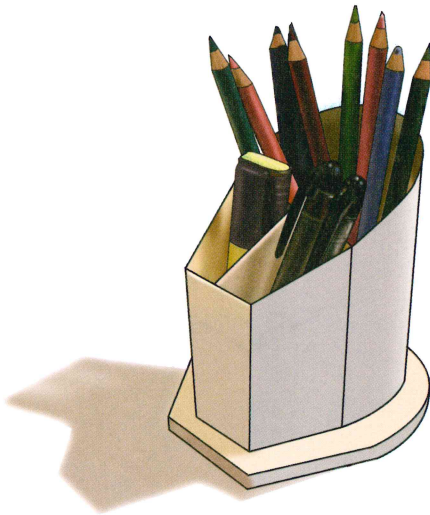
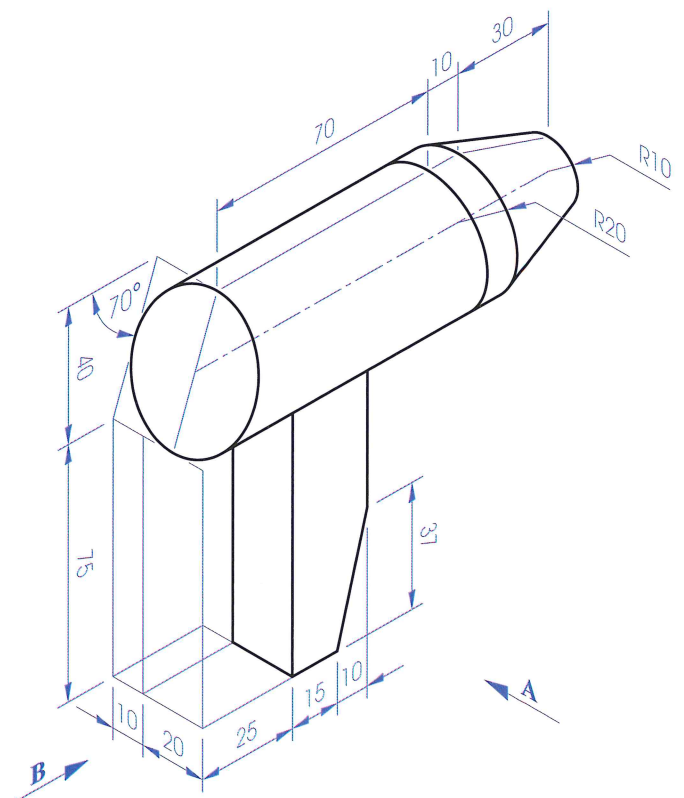


Exercises

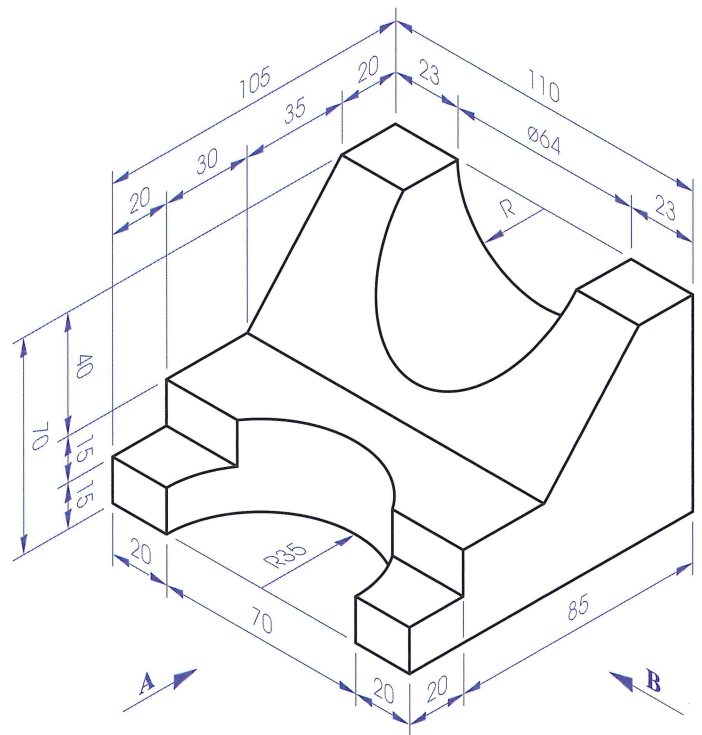
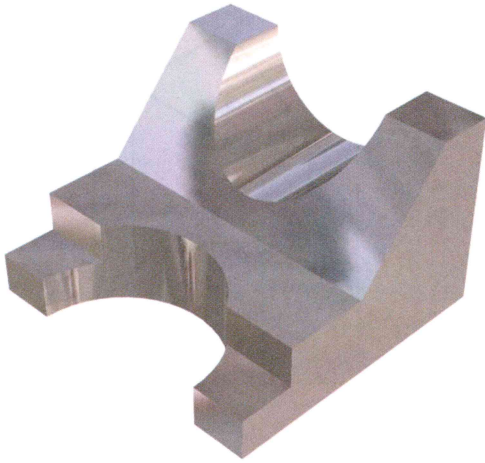
1. The figure over shows a pictorial view of a **desk-tidy**.
 - (a) Draw an **elevation** looking in the direction of arrow **A**.
 - (b) Draw an **end view** looking in the direction of arrow **B**.
 - (c) Draw a **plan** projected from (a) above.



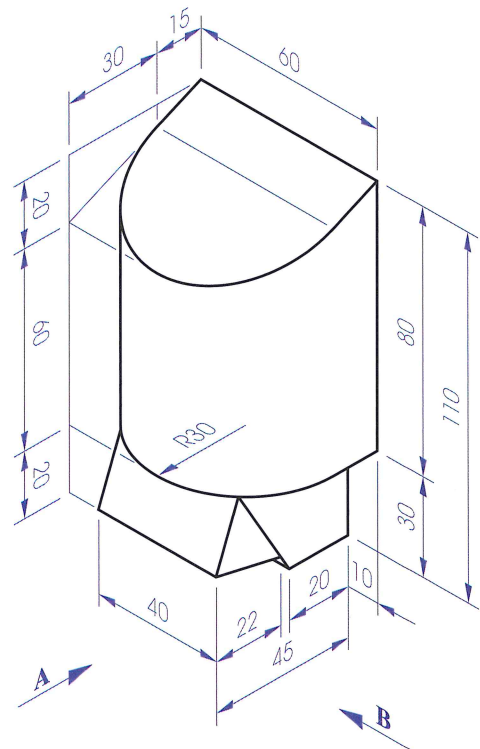
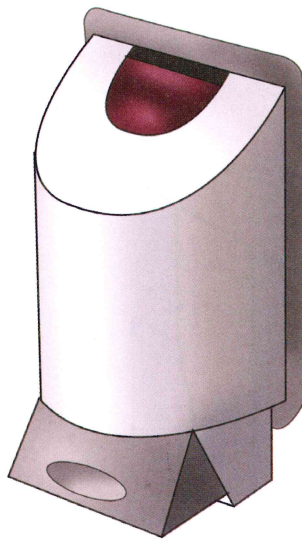
2. A pictorial view of a **hairdryer** is shown below.
 - (a) Draw an **elevation** looking in the direction of the arrow **A**.
 - (b) Draw an **end view** looking in the direction of the arrow **B**.
 - (c) Draw a **plan** projected from (a) above.



3. The figure over shows a pictorial view of a **solid**.
- (a) Draw an **elevation** looking in the direction of the arrow **A**.
 - (b) Draw an **end view** looking in the direction of the arrow **B**.
 - (c) Draw a **plan** projected from (a) above.



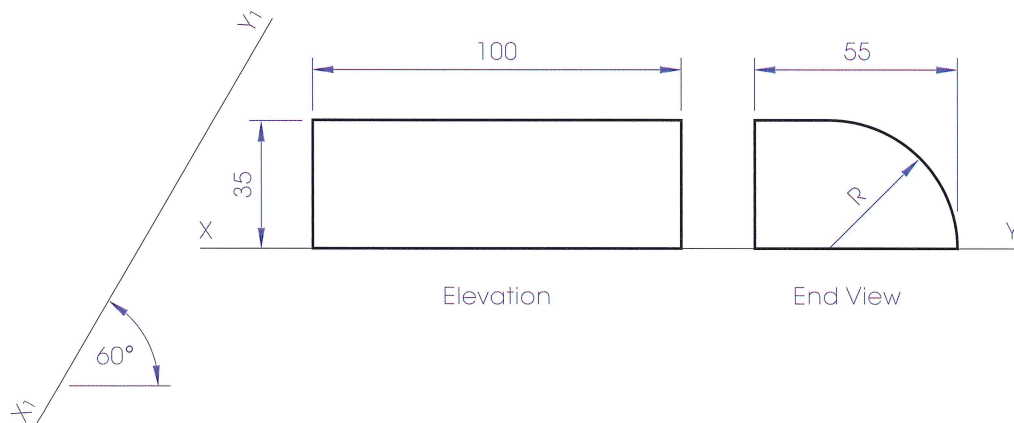
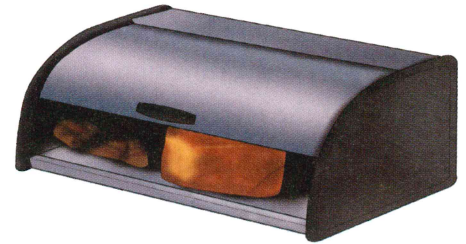
4. A pictorial view of a **hand wash dispenser** is shown over.
- Draw an **elevation** looking in the direction of the arrow **A**.
 - Draw an **end view** looking in the direction of the arrow **B**.
 - Draw a **plan** projected from (a) above.



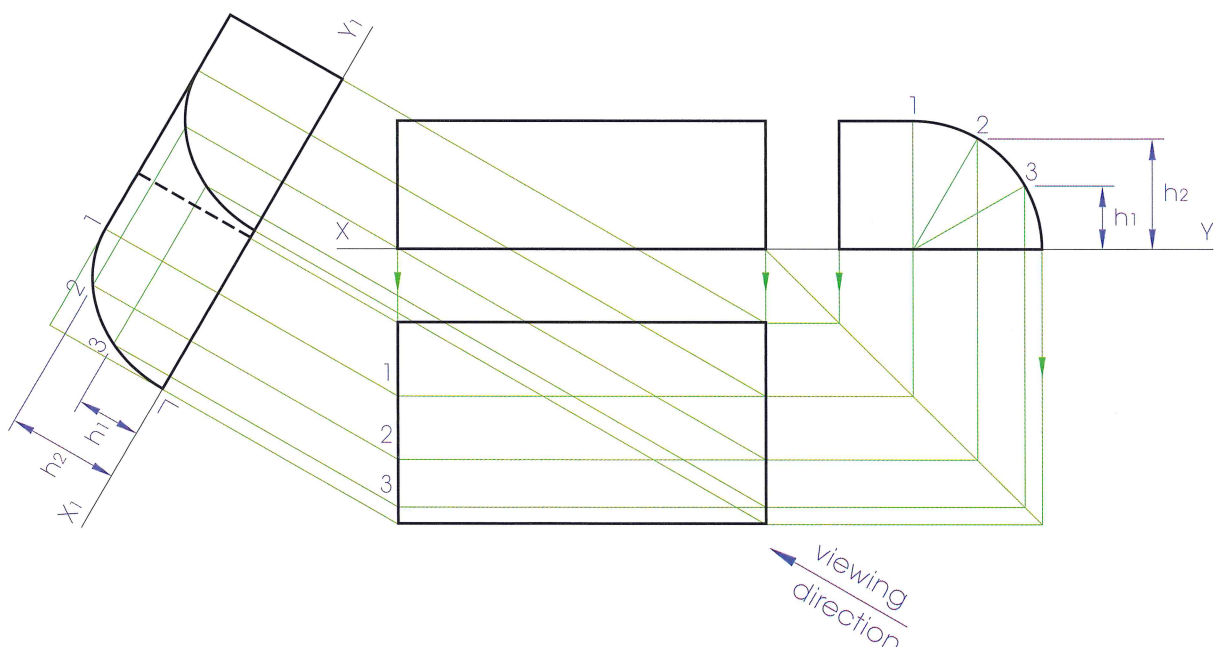
Example

The elevation and end view of a **bread bin** are shown below. Also shown is the direction of a new ground line X_1Y_1 .

- Draw the given views of the bread bin.
- Draw a **plan** projected from the elevation.
- Draw an **auxiliary elevation** of the bread bin on the ground line X_1Y_1 .



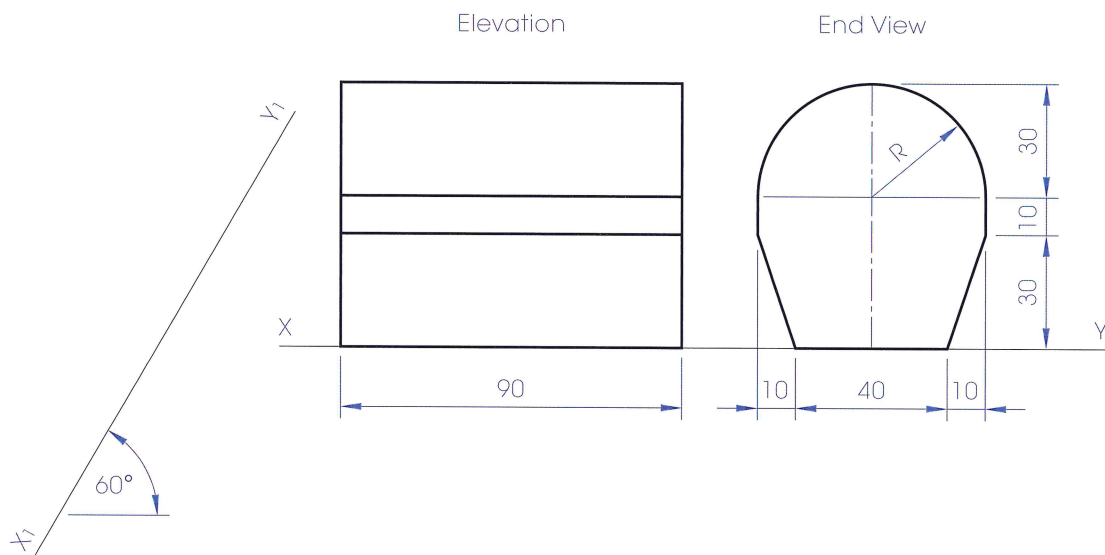
- The elevation, end view and plan are drawn as shown below.
- Draw the ground line X_1Y_1 in any convenient position and project points on the object from the plan at right angles to this ground line.
- Transfer the height of 35 mm from the front elevation and line in the auxiliary elevation omitting the curves.
- Locate additional points such as 2 and 3 on the end view of the quadrants and project these points to the plan.
- Project these points from the plan to the auxiliary elevation and locate them by transferring the heights h_1 and h_2 from the end view as indicated below.
- Complete the auxiliary view as shown.



Exercises

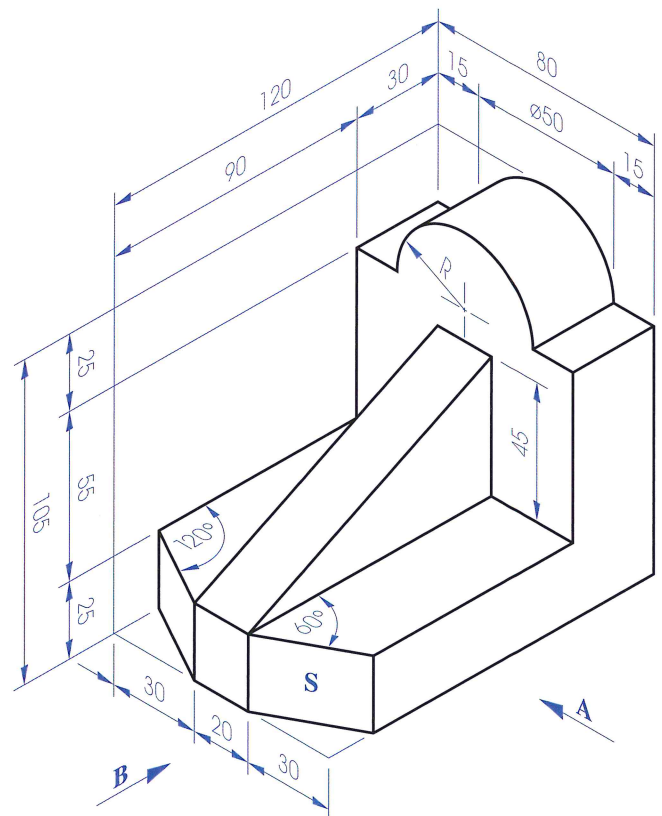
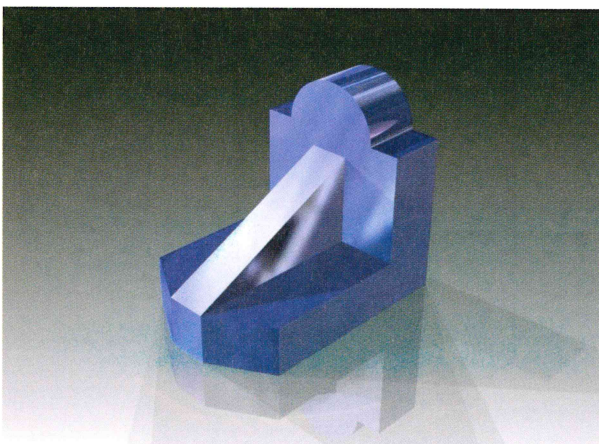
1. The elevation and end view of a **treasure chest** are shown below. Also shown is the direction of a ground line X_1Y_1 .

- Draw the given views of the treasure chest.
- Draw a **plan** projected from the elevation.
- Draw an **auxiliary elevation** of the treasure chest on the ground line X_1Y_1 .



2. The figure over shows a pictorial view of a **solid**.

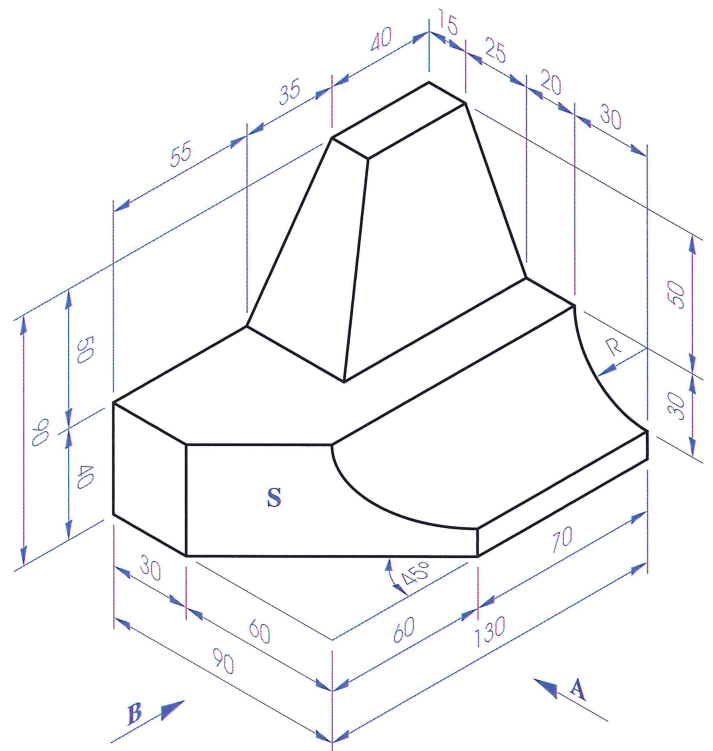
- Draw an **elevation** looking in the direction of the arrow **A**.
- Draw an **end view** looking in the direction of the arrow **B**.
- Draw a **plan** projected from (a) above.
- Draw an **auxiliary elevation** of the *entire solid* which will show the true shape of the surface **S**.



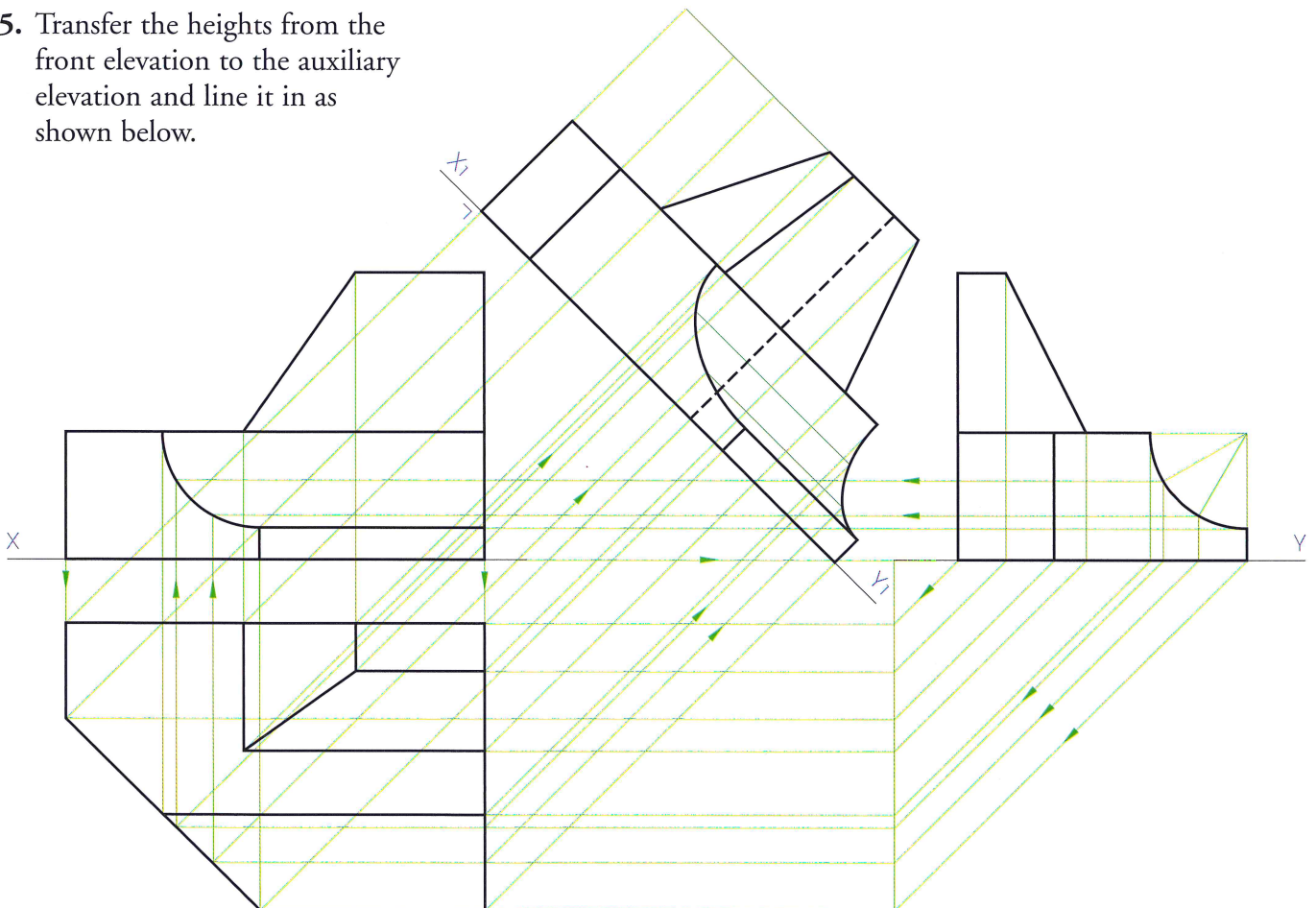
Example

A pictorial view of a **solid** is shown over.

- Draw an **elevation** looking in the direction of the arrow **A**.
- Draw an **end view** looking in the direction of the arrow **B**.
- Draw a **plan** projected from (a) above.
- Draw an **auxiliary elevation** of the *entire solid* which will show the true shape of the surface **S**.

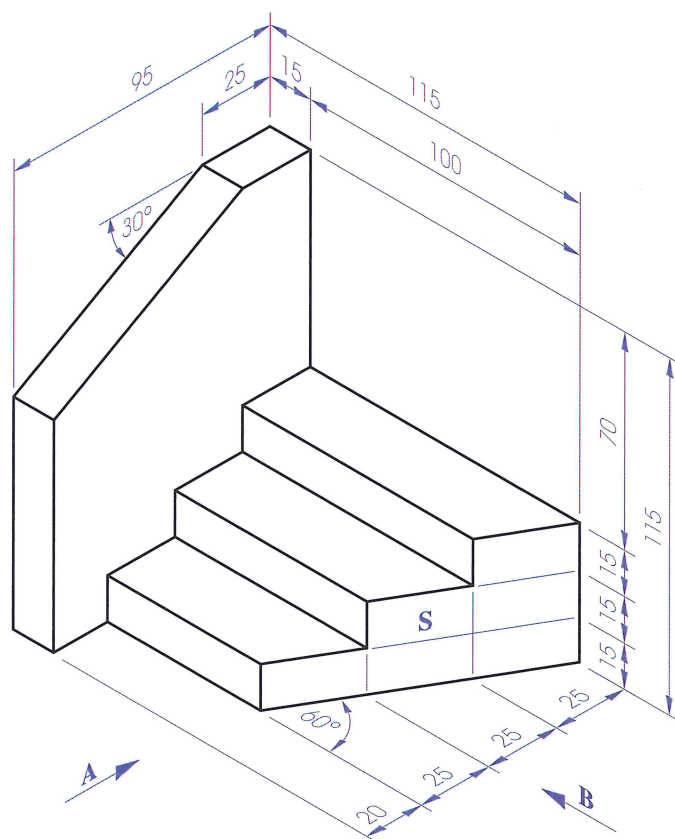
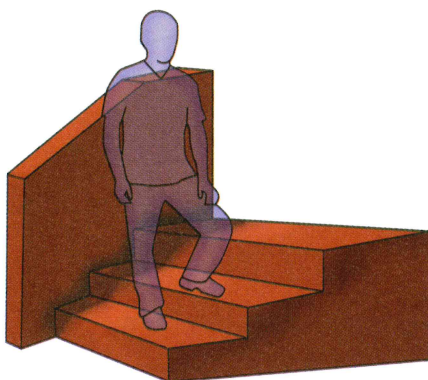


- The elevation (excluding the curve), end view and plan are drawn in the normal manner.
- Surface **S** appears as an edge (line) in plan. Therefore points on the curved line on surface **S** can be projected from the end view to meet this edge to locate them in plan.
- These points can be located in elevation by projecting them from the plan and end view as shown below. Draw a smooth curve to pass through them to complete the elevation.
- Draw the X_1Y_1 line parallel to the plan of surface **S**. Project points on the object from the plan at right angles to the new ground line.
- Transfer the heights from the front elevation to the auxiliary elevation and line it in as shown below.



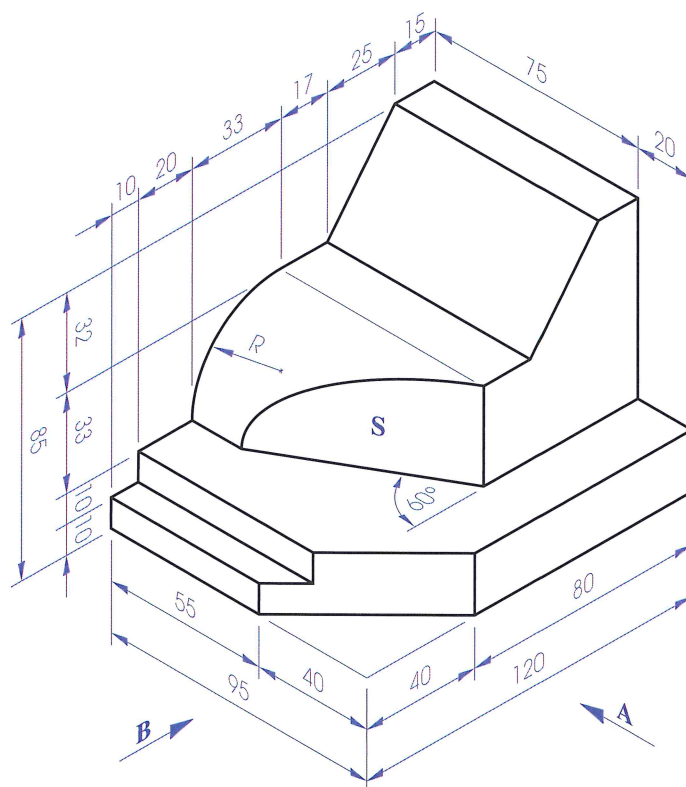
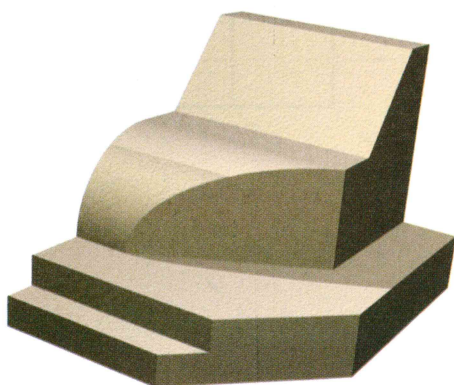
Exercises

1. A pictorial view of a **flight of steps** is shown over.
 - (a) Draw an **elevation** looking in the direction of the arrow **A**.
 - (b) Draw an **end view** looking in the direction of the arrow **B**.
 - (c) Draw a **plan** projected from (a) above.
 - (d) Draw an **auxiliary elevation** of the *entire solid* which will show the true shape of the surface S.



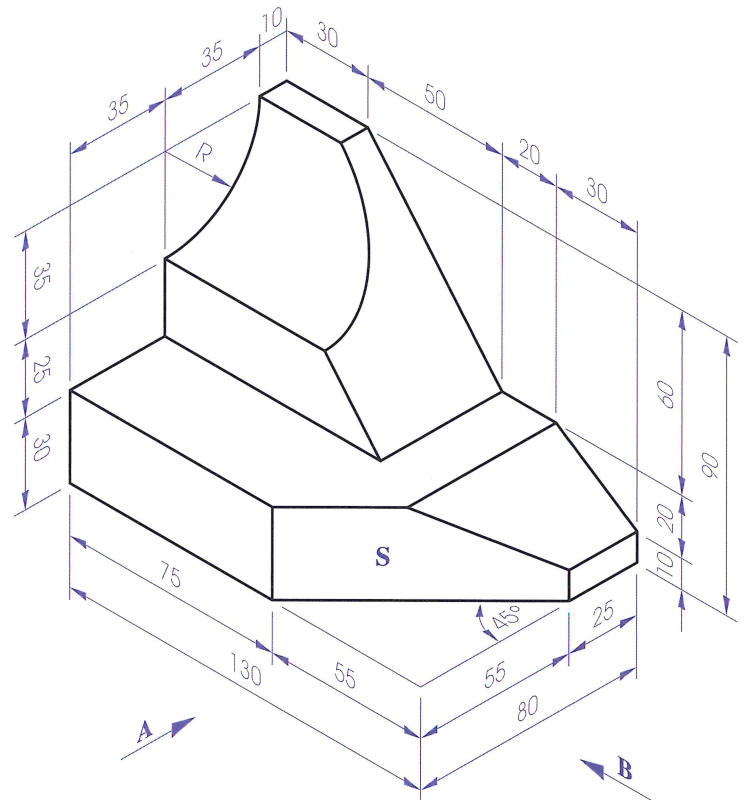
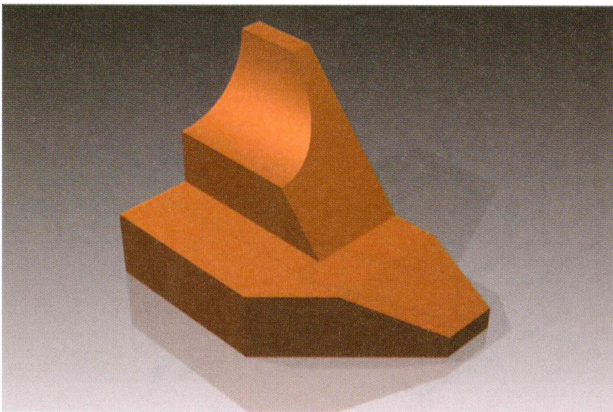
The figure over shows a pictorial view of a **solid**.

- Draw an **elevation** looking in the direction of the arrow **A**.
- Draw an **end view** looking in the direction of the arrow **B**.
- Draw a **plan** projected from (a) above.
- Draw an **auxiliary elevation** of the *entire solid* which will show the true shape of the surface S.



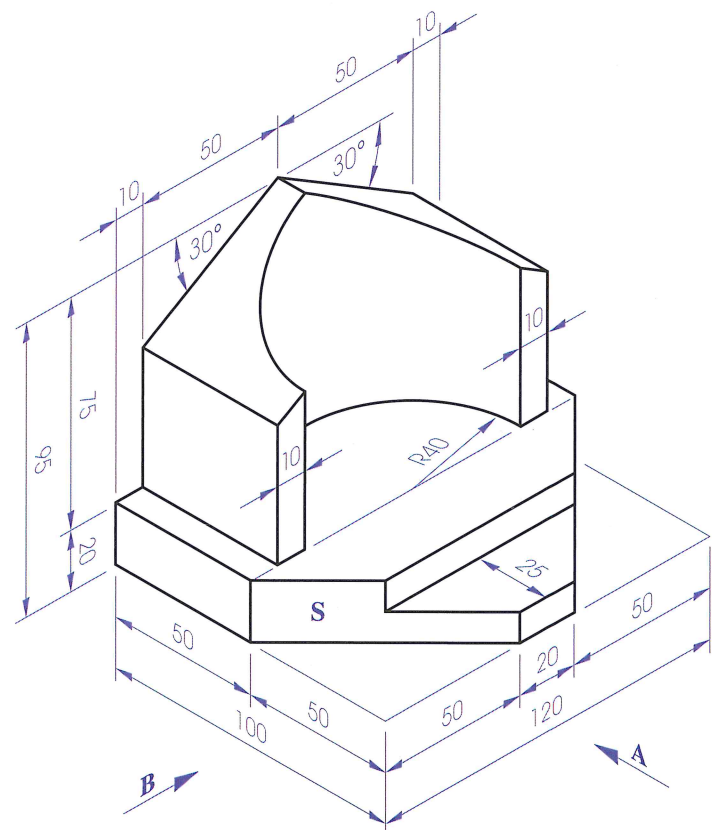
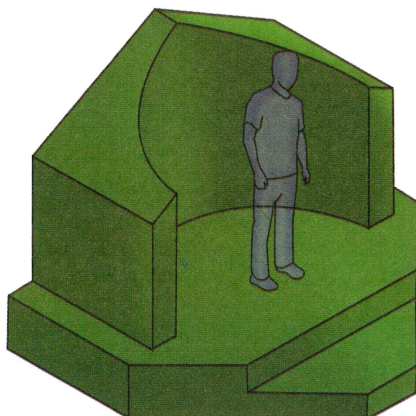
3. A pictorial view of a **solid** is shown below. A photo-realistic image of the solid is also shown.

- Draw an **elevation** looking in the direction of the arrow **A**.
- Draw an **end view** looking in the direction of the arrow **B**.
- Draw a **plan** projected from (a) above.
- Draw an **auxiliary elevation** of the *entire solid* which will show the true shape of the surface **S**.

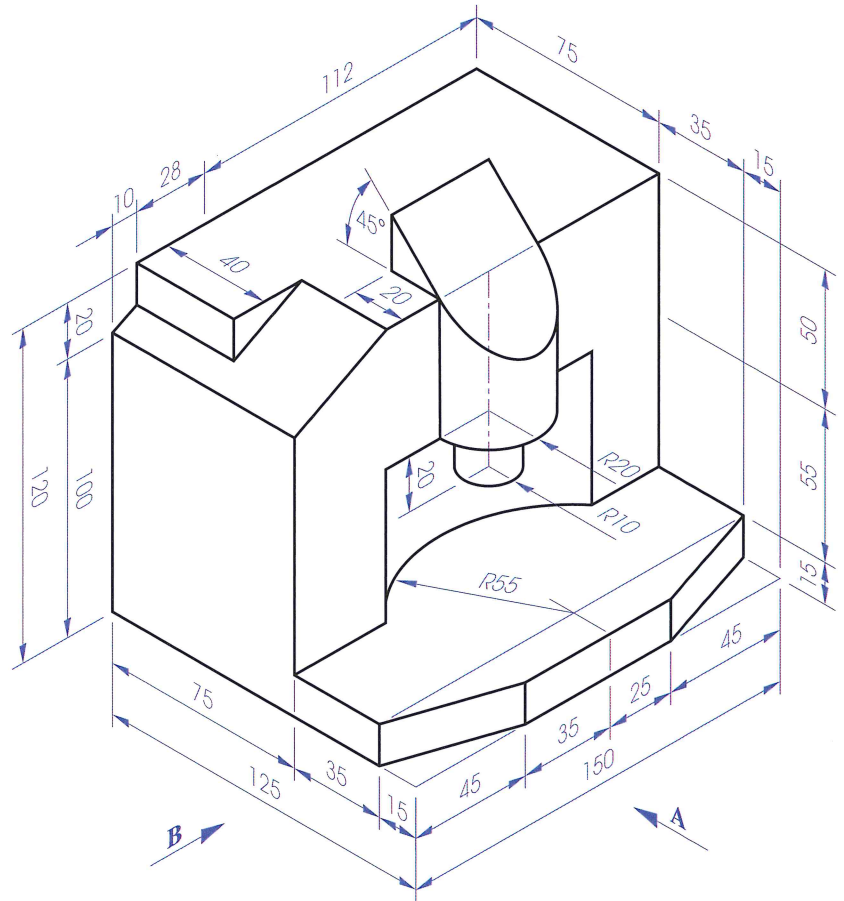



4. The figure over shows a pictorial view of a **structure**. Each step is of *equal height*.

- Draw an **elevation** looking in the direction of the arrow **A**.
- Draw an **end view** looking in the direction of the arrow **B**.
- Draw a **plan** projected from (a) above.
- Draw an **auxiliary elevation** of the *surface S* which will show its true shape.



5. A pictorial view of a **coffee machine** is shown over.
- (a) Draw an **elevation** looking in the direction of the arrow **A**.
 - (b) Draw an **end view** looking in the direction of the arrow **B**.
 - (c) Draw a **plan** projected from (a) above.



6. The figure below shows a pictorial view of a **solid**. A photo-realistic image of the solid is also shown.
- (a) Draw an **elevation** looking in the direction of the arrow **A**.
 - (b) Draw an **end view** looking in the direction of the arrow **B**.
 - (c) Draw a **plan** projected from (a) above.
 - (d) Draw an **auxiliary elevation** of the *surface S* which will show its true shape.
- 
- The diagram shows a 3D object with the following dimensions: a base of 125, a front-left step of 38, a top-left step of 15, a top-right step of 40, and a back-right step of 20. A viewing arrow labeled 'A' points towards the front-left face, and a viewing arrow labeled 'B' points towards the right side of the object.

