

(ii) Top view

**May 15, 9 Marks**

The diagram illustrates the orthographic projection of a mechanical component, showing both the Front View (F.V.) and the Top View (T.V.).

**Front View (F.V.):**

- The overall height of the part is 50 units.
- The top section is a rectangle with a width of 60 units and a height of 25 units.
- The middle section is a trapezoid with a top width of 25 units, a bottom width of 46 units, and a height of 25 units.
- The bottom section is a trapezoid with a top width of 25 units, a bottom width of 46 units, and a height of 15 units.
- The total width of the base is 46 units.

**Top View (T.V.):**

- The overall width of the part is 50 units.
- The overall depth of the part is 5 units.
- The central feature is a circular hole with a diameter of  $\text{Ø}40$ .
- There is a smaller concentric hole with a diameter of  $\text{Ø}20$  located within the  $\text{Ø}40$  hole.
- The part is divided into three horizontal sections by lines X and Y.



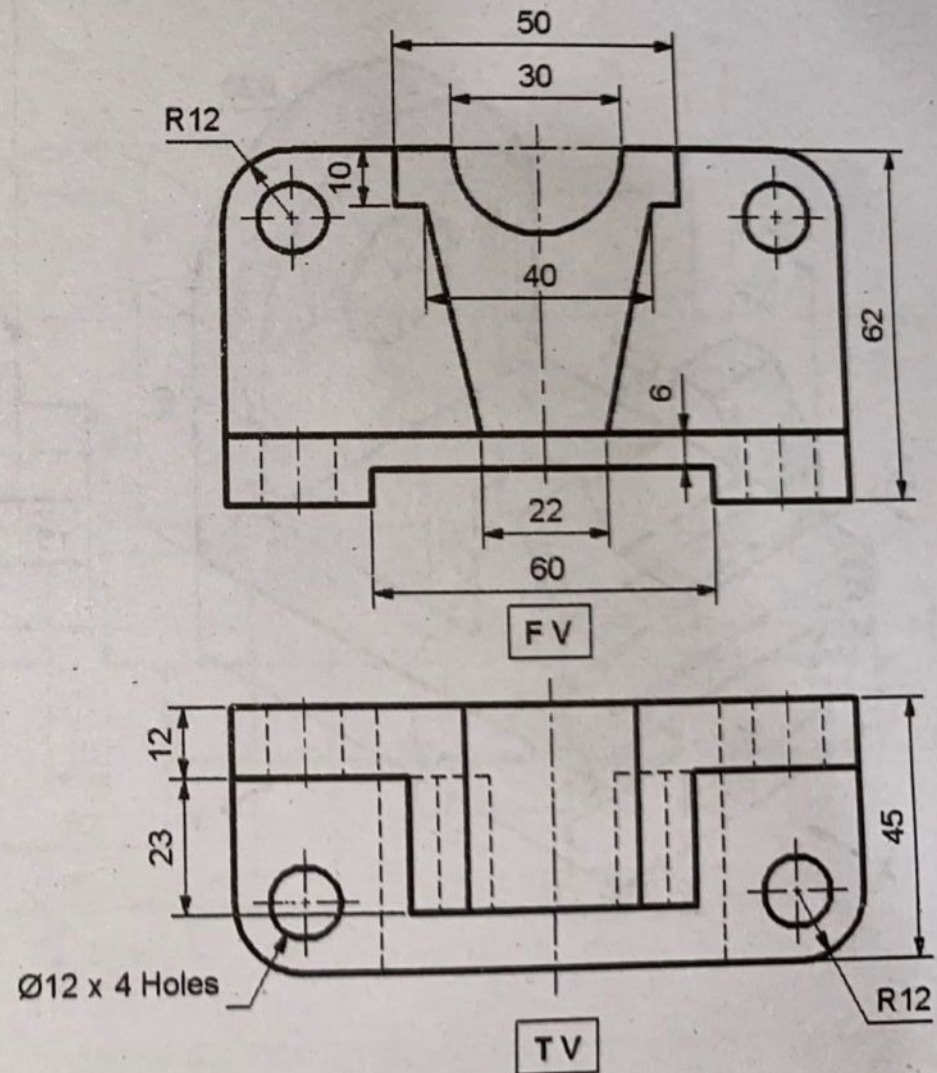
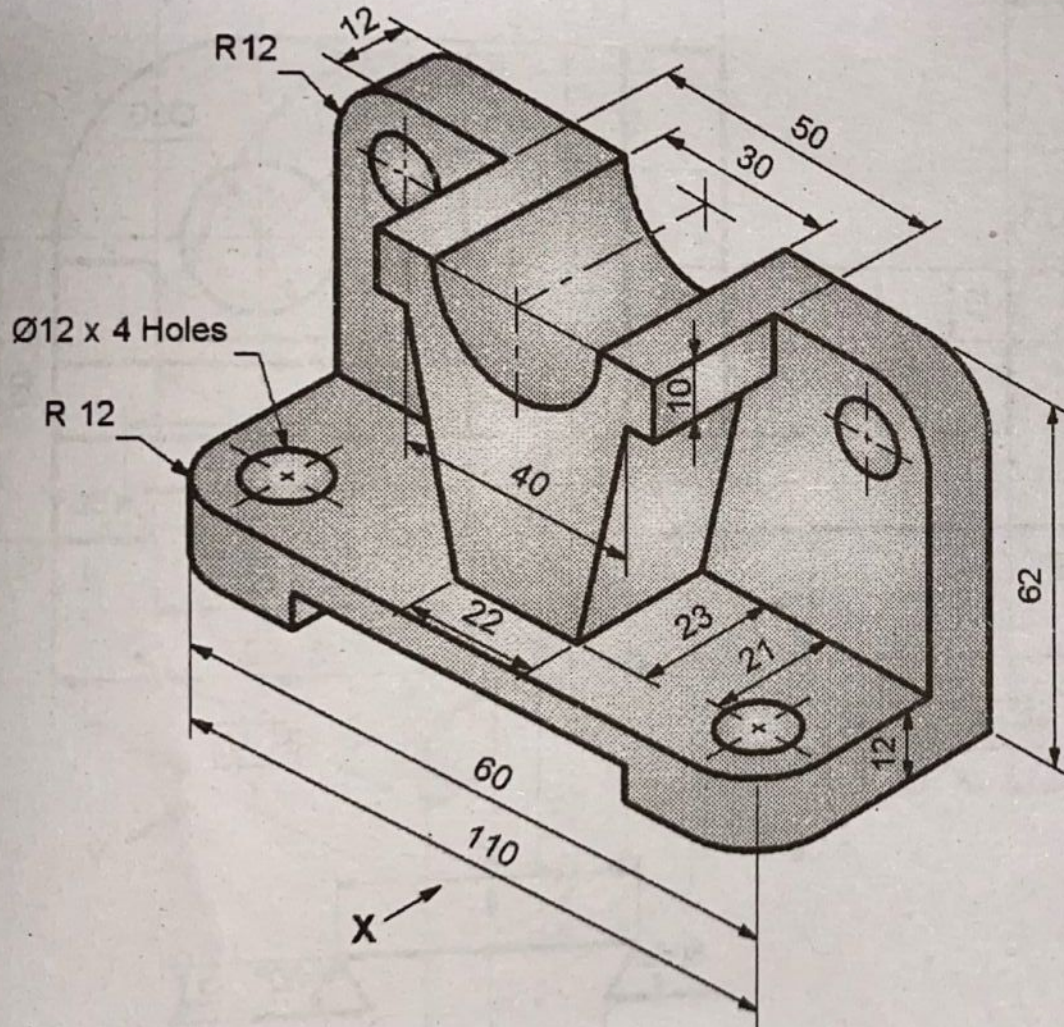
**Prob. 17 :** The pictorial view of a machine part is given in the Fig. Draw the following views :

- (i) Front View

- (ii) Top view

Dec. 14, 9 Marks

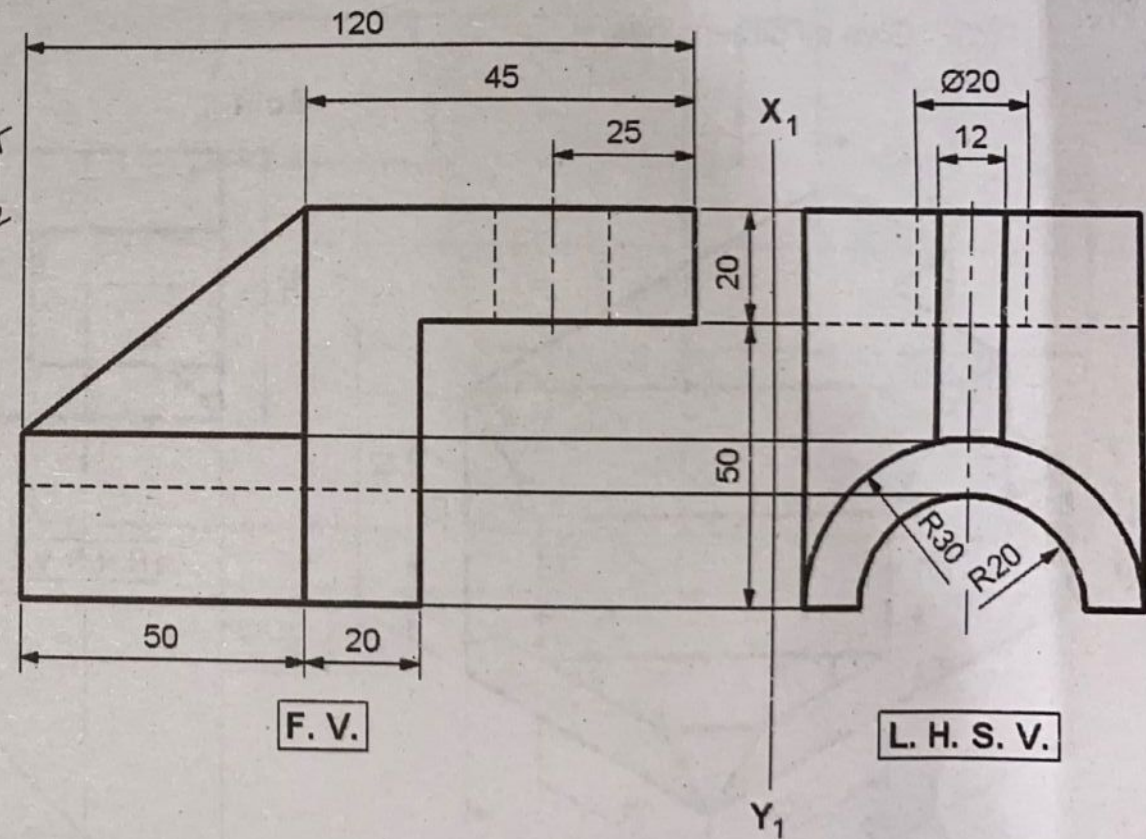
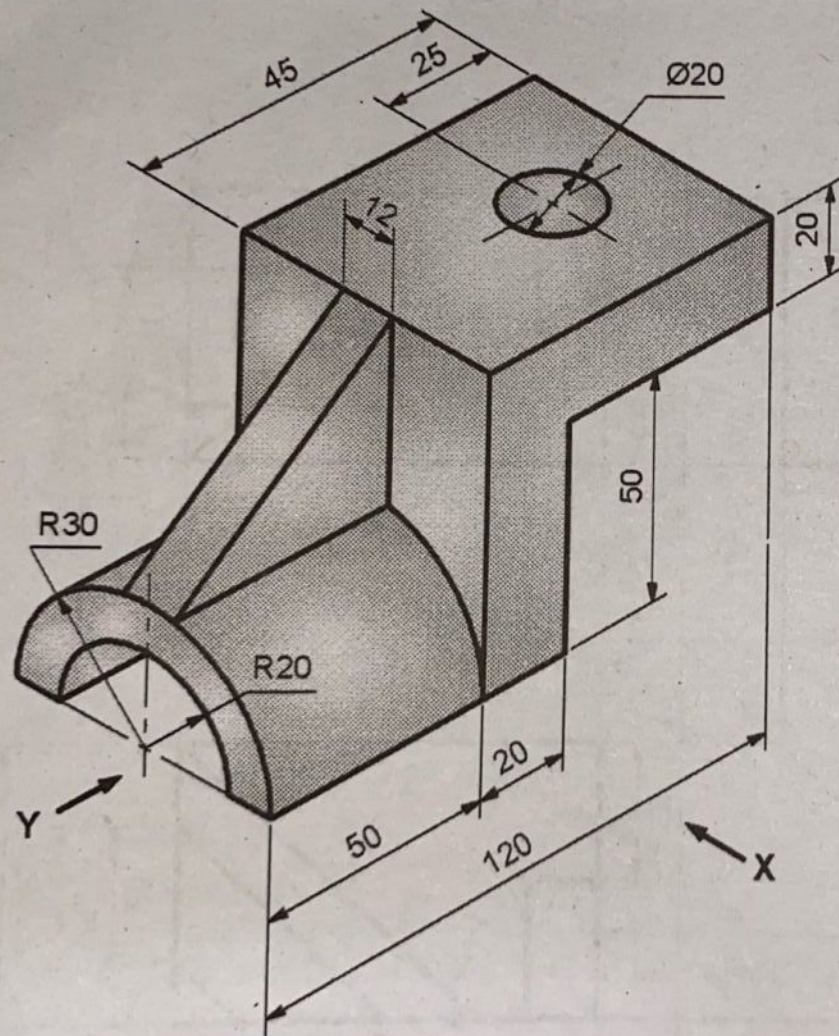
**Soln. :**





**Prob. 15 :** Fig. shows Pictorial view of an object. Draw following views : (i) Front view looking in the direction X. (ii) Side view looking in the direction Y.

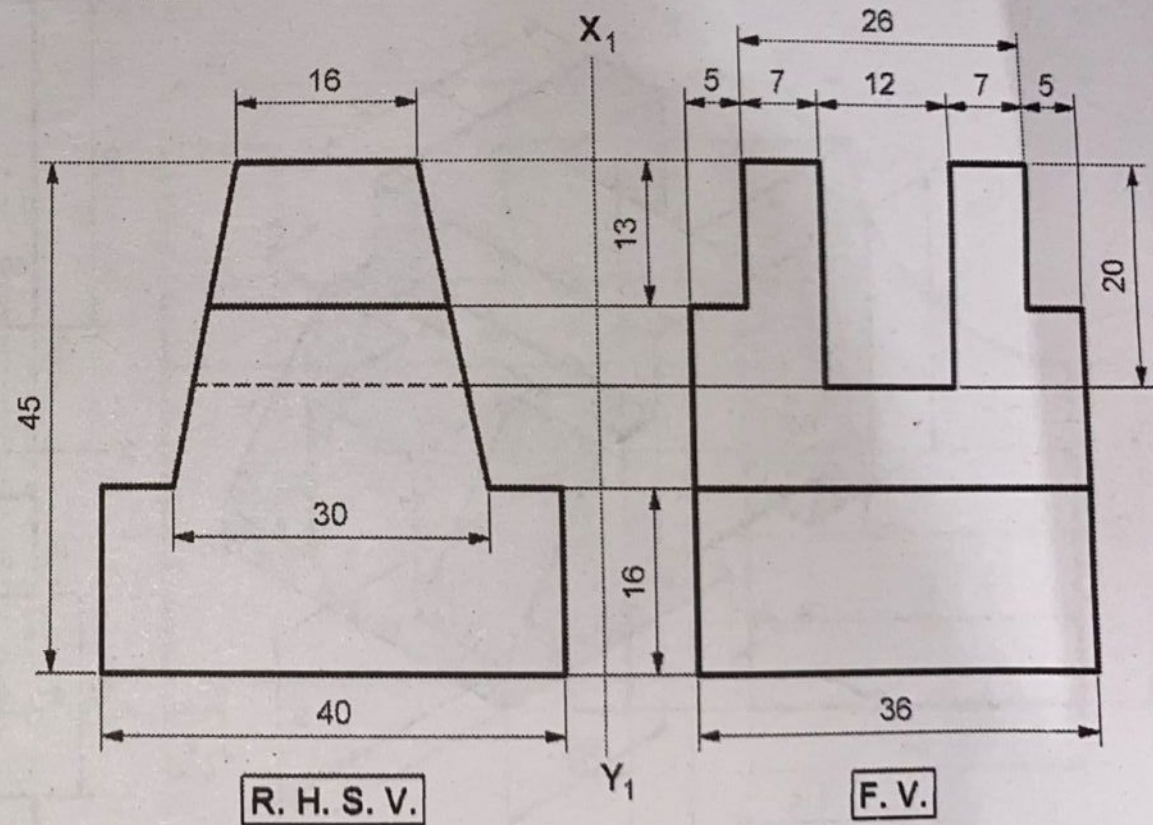
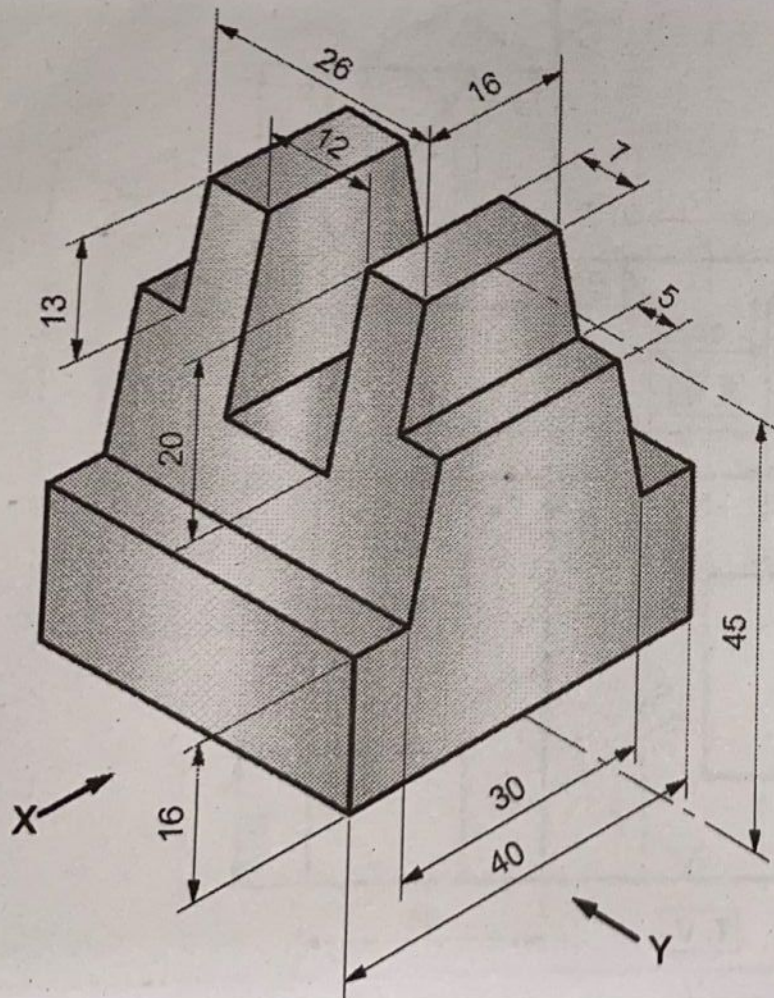
**Soln. :**





**Prob. 11 :** Fig. shows Pictorial view of an object. Draw following views : (i) Front view looking in the direction X. (ii) Side view looking in the direction Y.

**Soln. :**





**Prob. 34 :** Fig. Prob. 34 shows a pictorial view of a block. Draw the following views :

- (a) Sectional F.V. looking along arrow X (section B-B)  
 (b) R.H.S.V. (c) Top view

Insert at least 10 major dimensions.

May 11, Dec. 13, 15 Marks

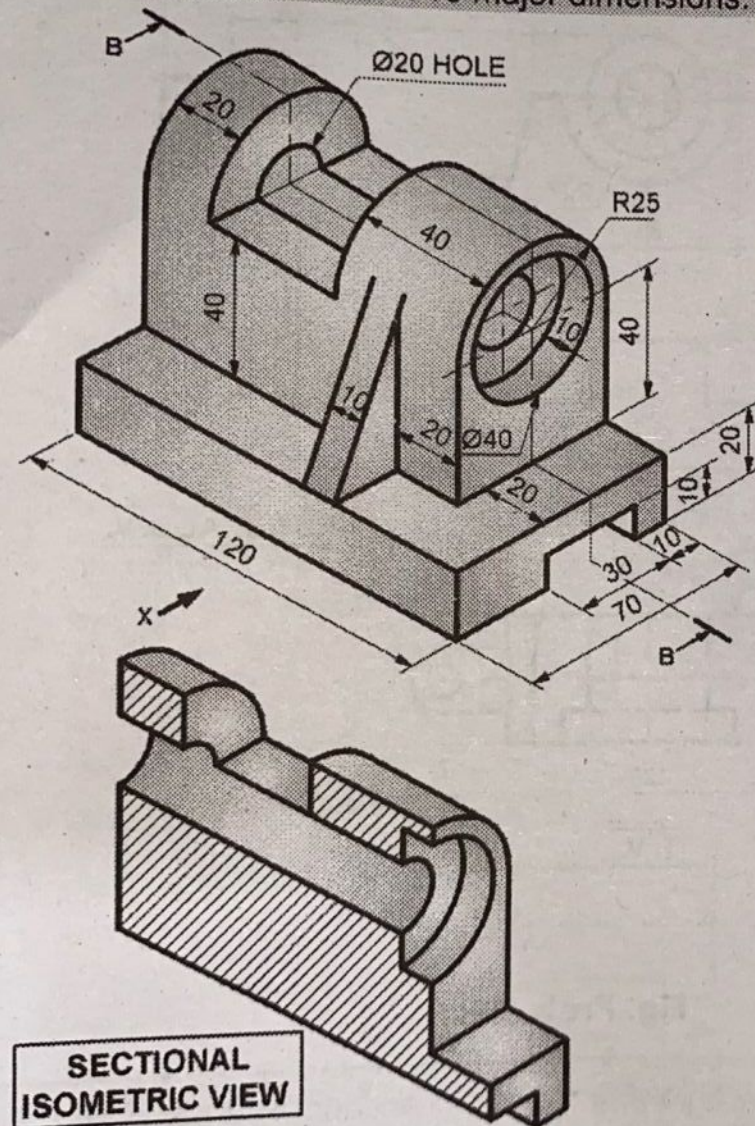


Fig. Prob. 34

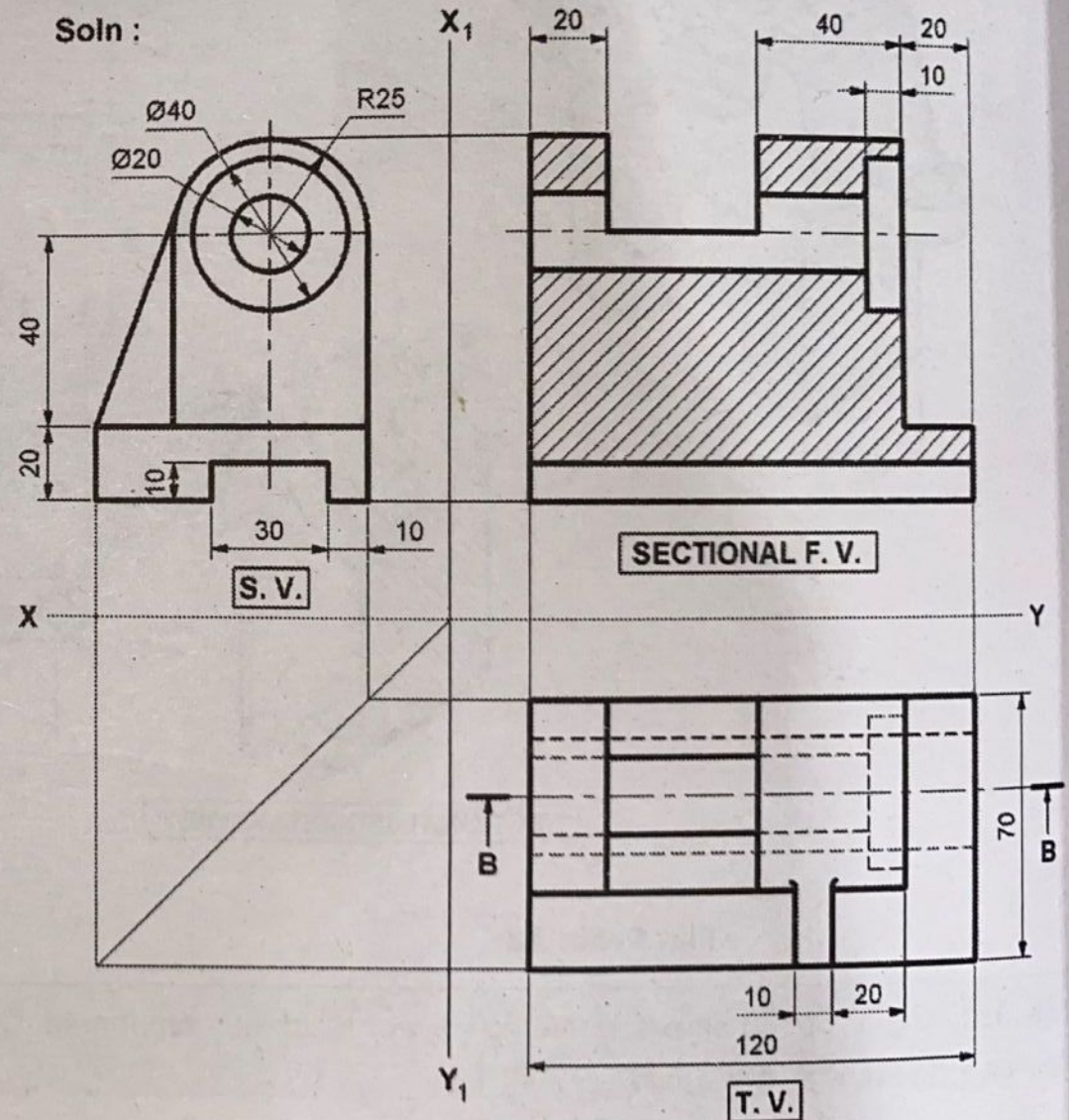


Fig. Prob. 34(a)



**Prob. 23 :** Fig. Prob. 23 shows a pictorial view of a machine part. Draw

(a) Sectional front view looking along the arrow X (section A-A) (b) Top view (c) L.H.S.V.

Insert at least 10 major dimensions.

Dec. 12, 15 Marks

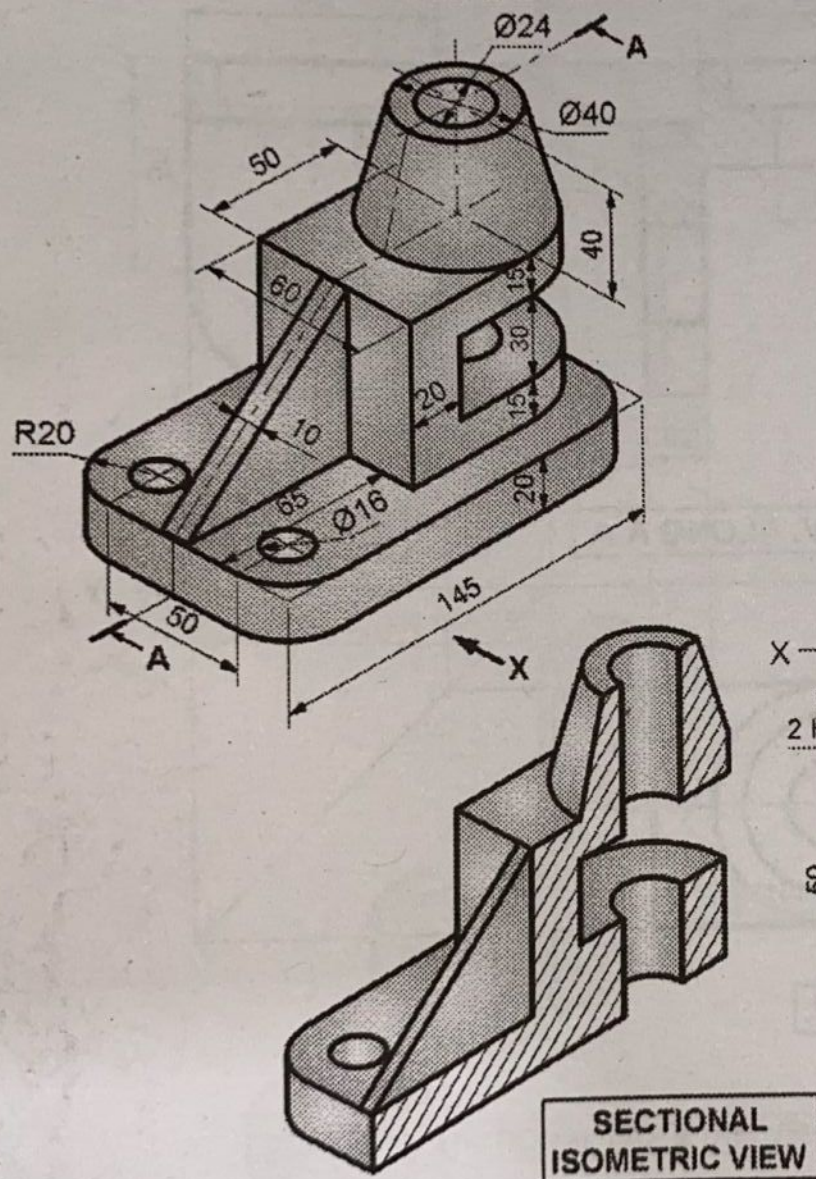


Fig. Prob. 23

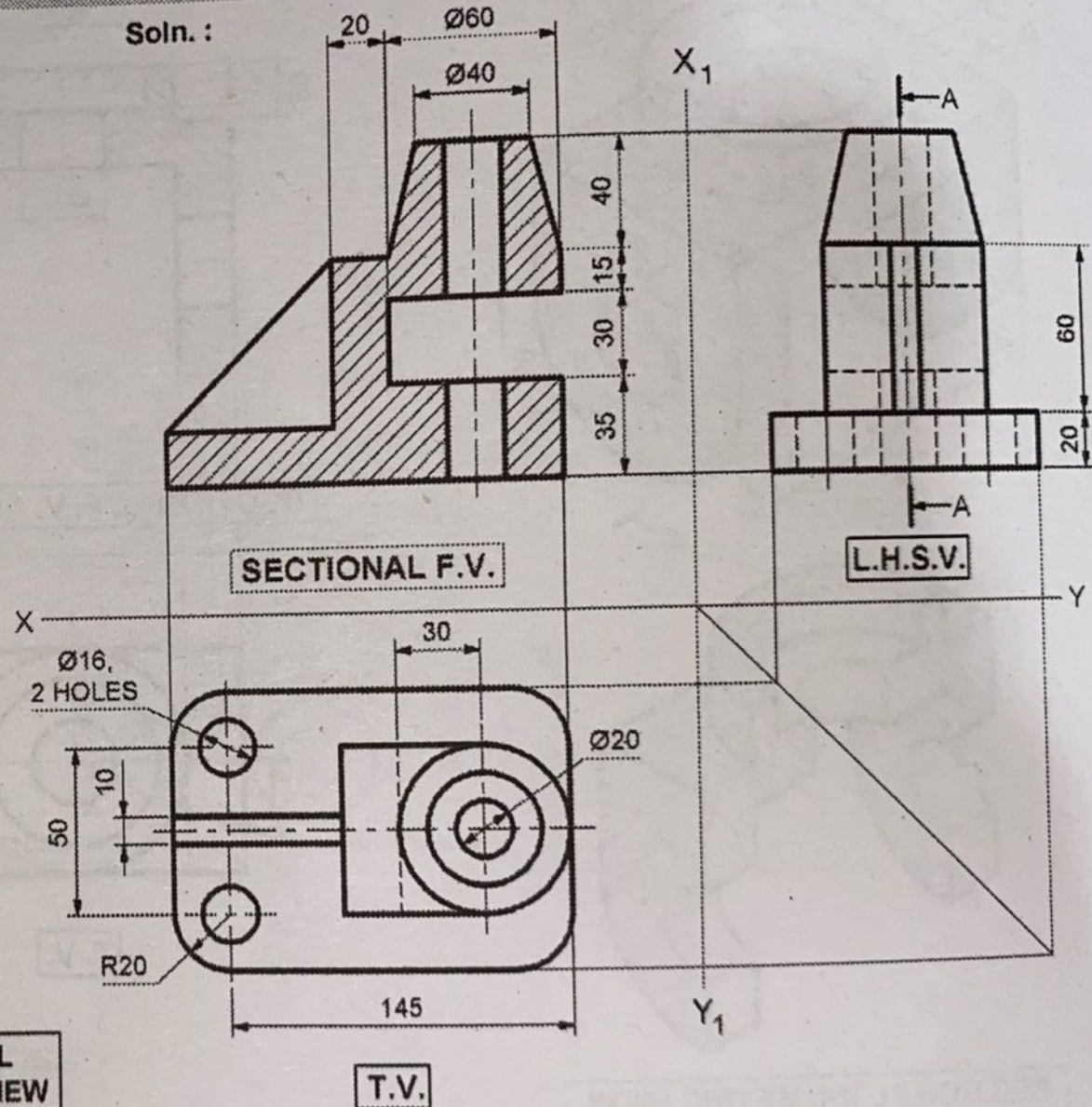
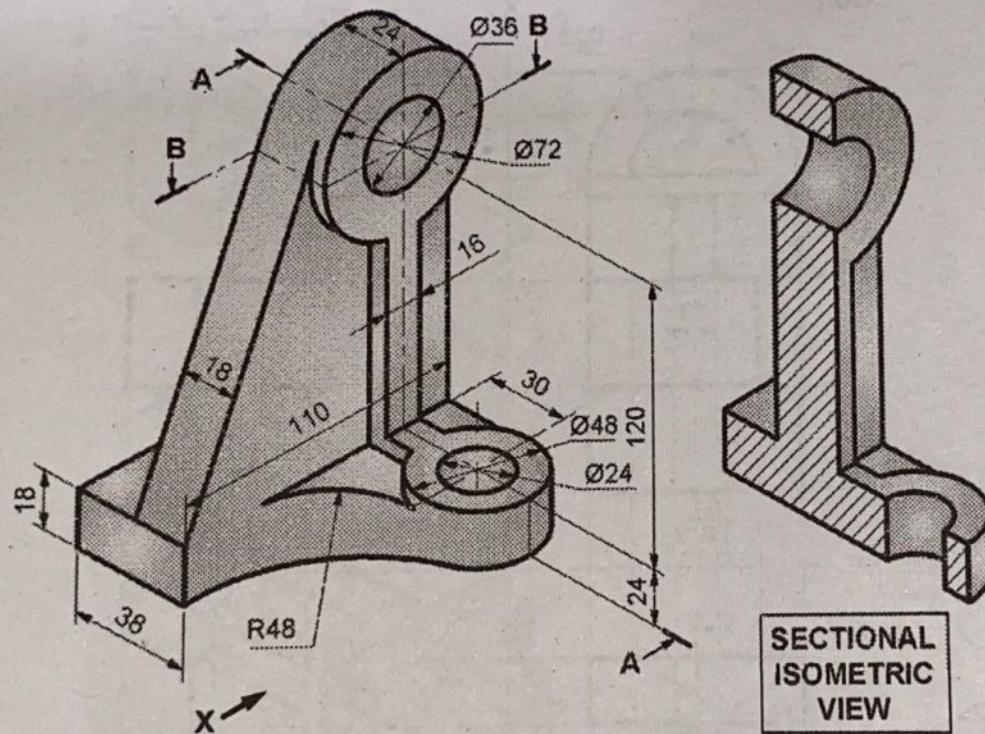


Fig. Prob. 23(a)



**Prob. 15 :** Fig. Prob. 15 shows isometric view of a machine component. Draw following views (i) Sectional F.V. looking in the direction X. (Section A-A) (ii) R.H.S.V. (iii) Sectional T.V. (Section B-B).



SECTIONAL ISOMETRIC VIEW

Fig. Prob. 15

Soln :

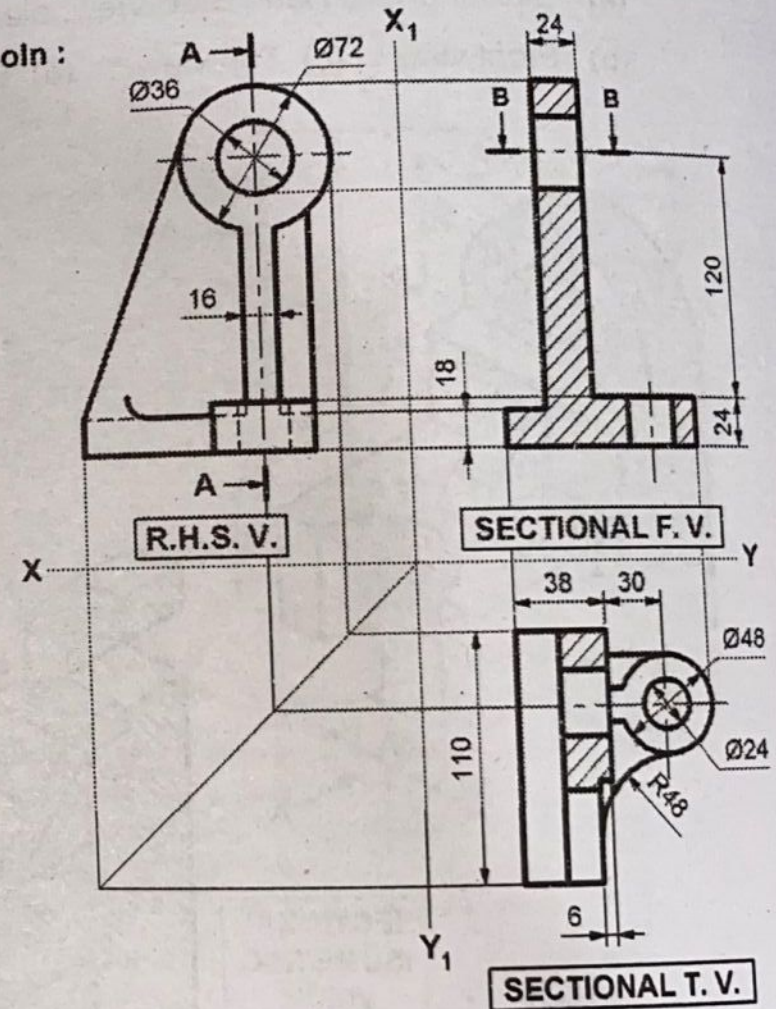
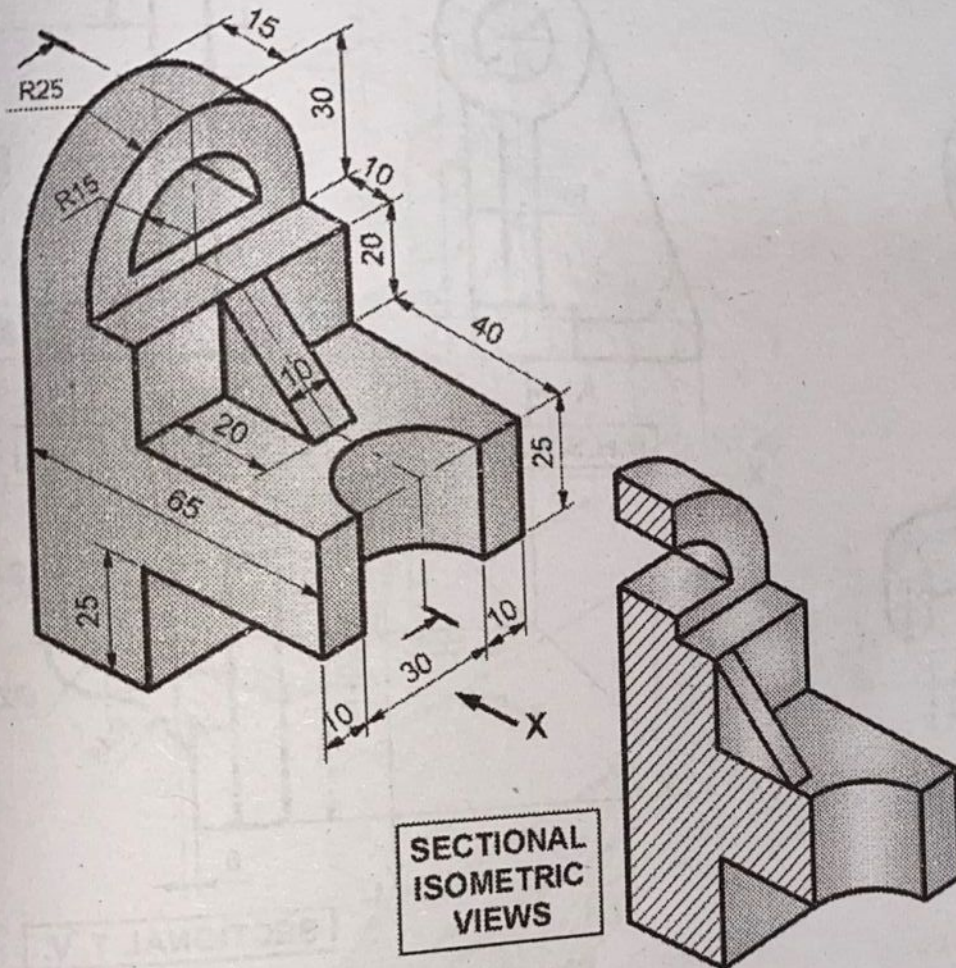


Fig. Prob. 15(a)



- Prob. 13 : Fig. Prob. 13 shows a pictorial view of an object. By using First Angle Method of projections, draw :
- (a) Sectional Left Hand Side View, along given section plane  
 (b) Front view (c) Top view (d) Dimensions



Soln :

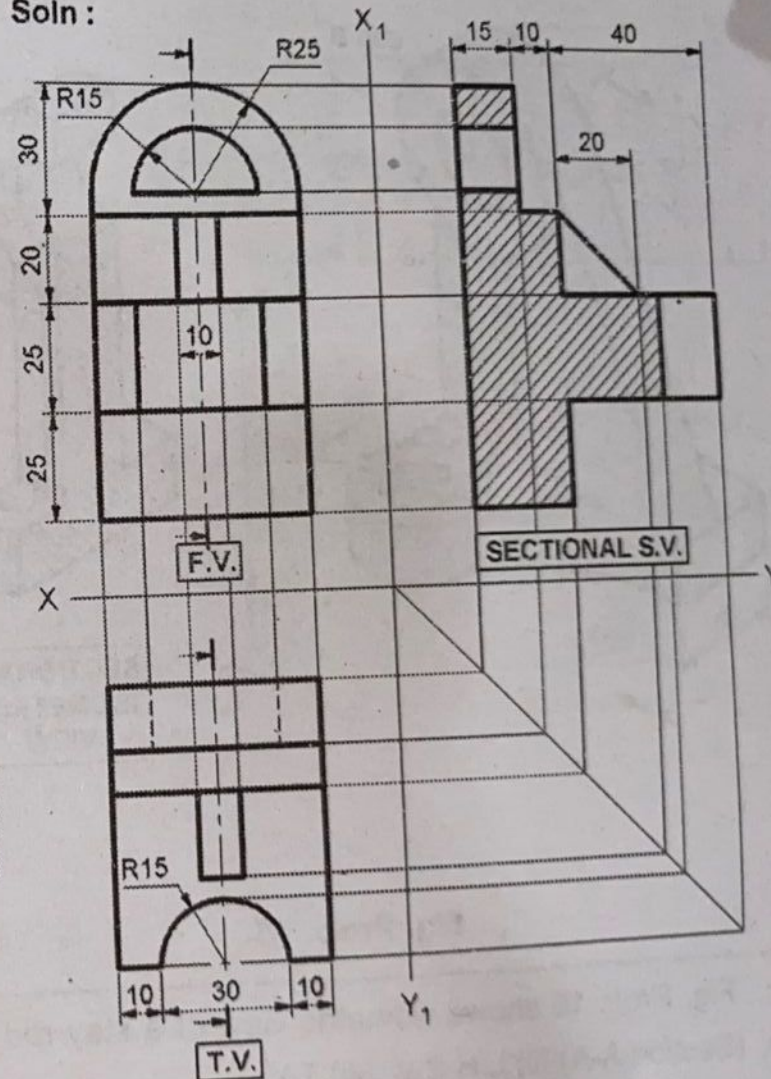


Fig. Prob. 13(a)

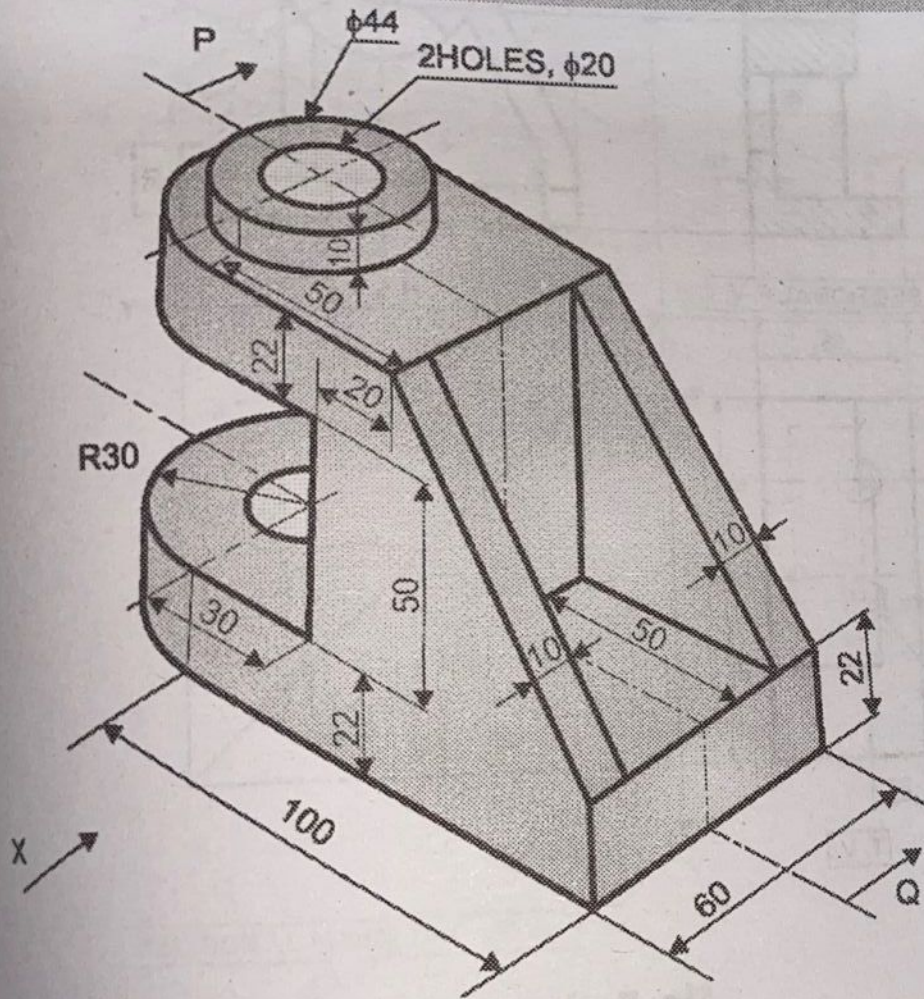


**Prob. 14 :** Fig. Prob. 14 shows pictorial view of an object , draw :

- i) Sectional front view along section P-Q  
iii) Right Hand Side View

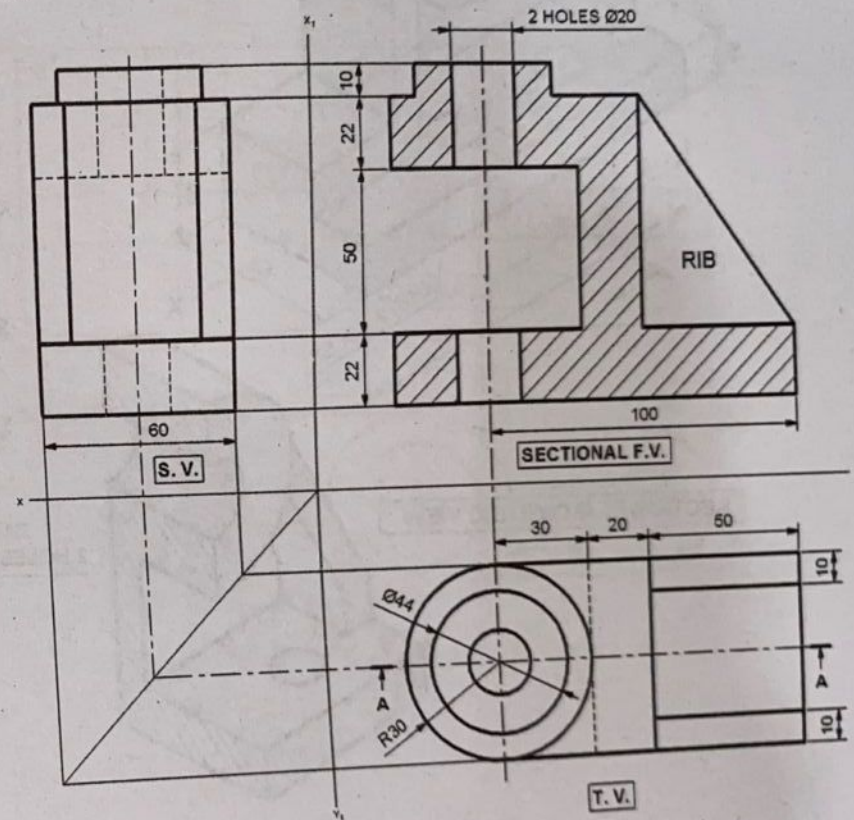
ii) Top View

May 18, 13 Marks



**Fig. Prob. 14**

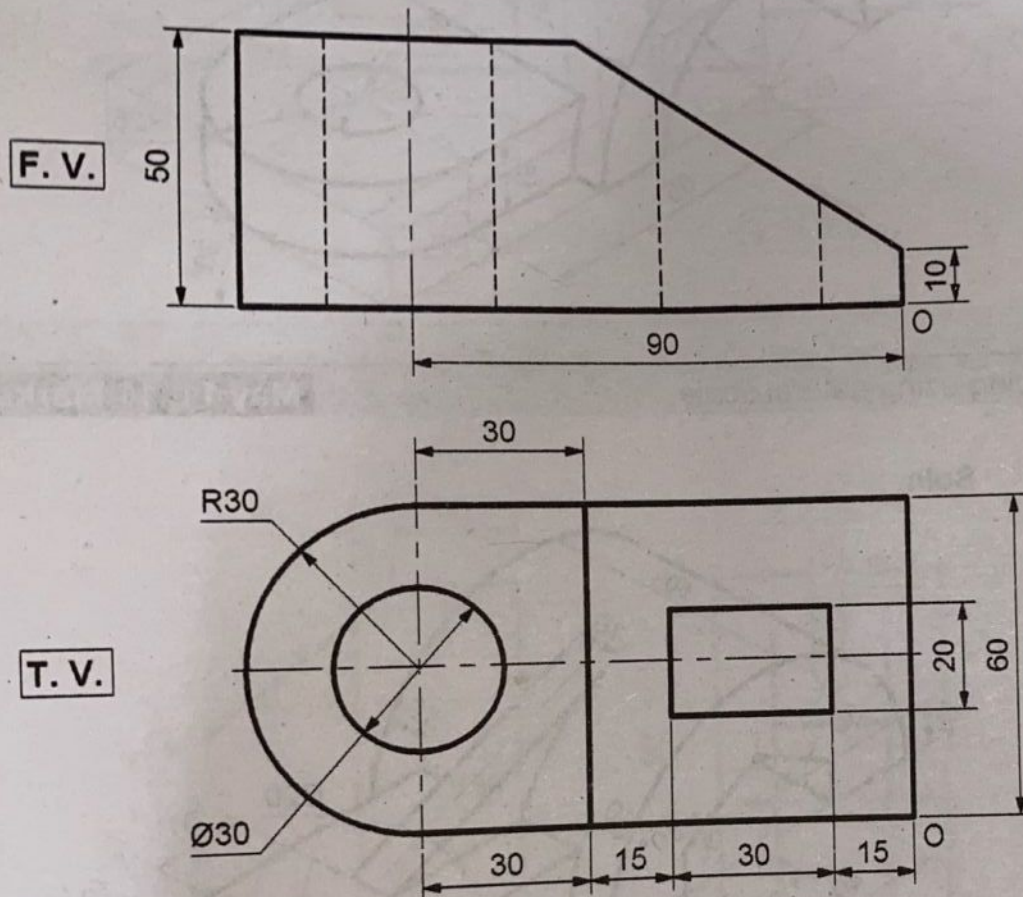
**Soln :**



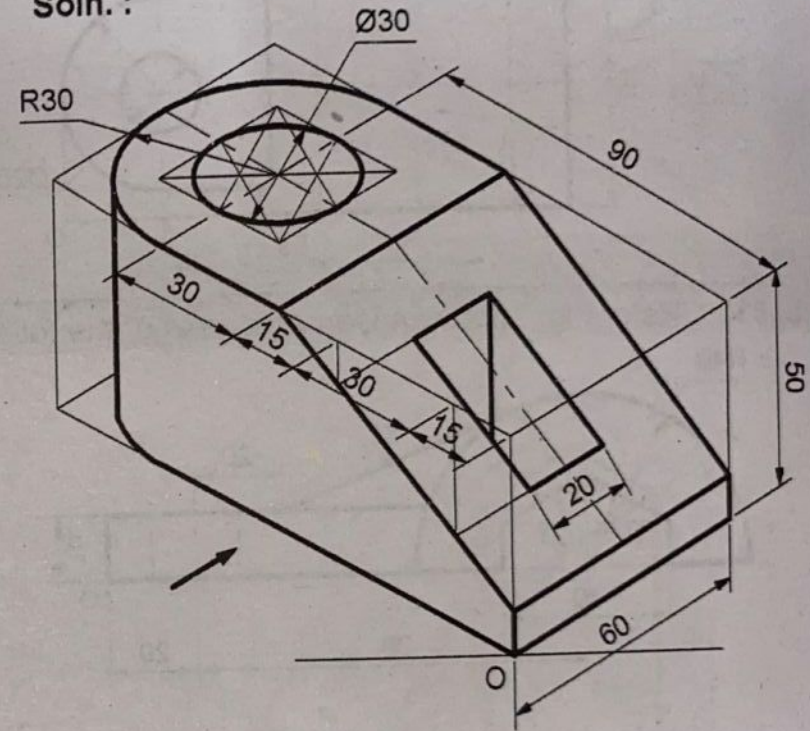
**Fig. Prob. 14(a)**



**Prob. 85 :** Fig. shows FV and TV of an object. Draw isometric view.

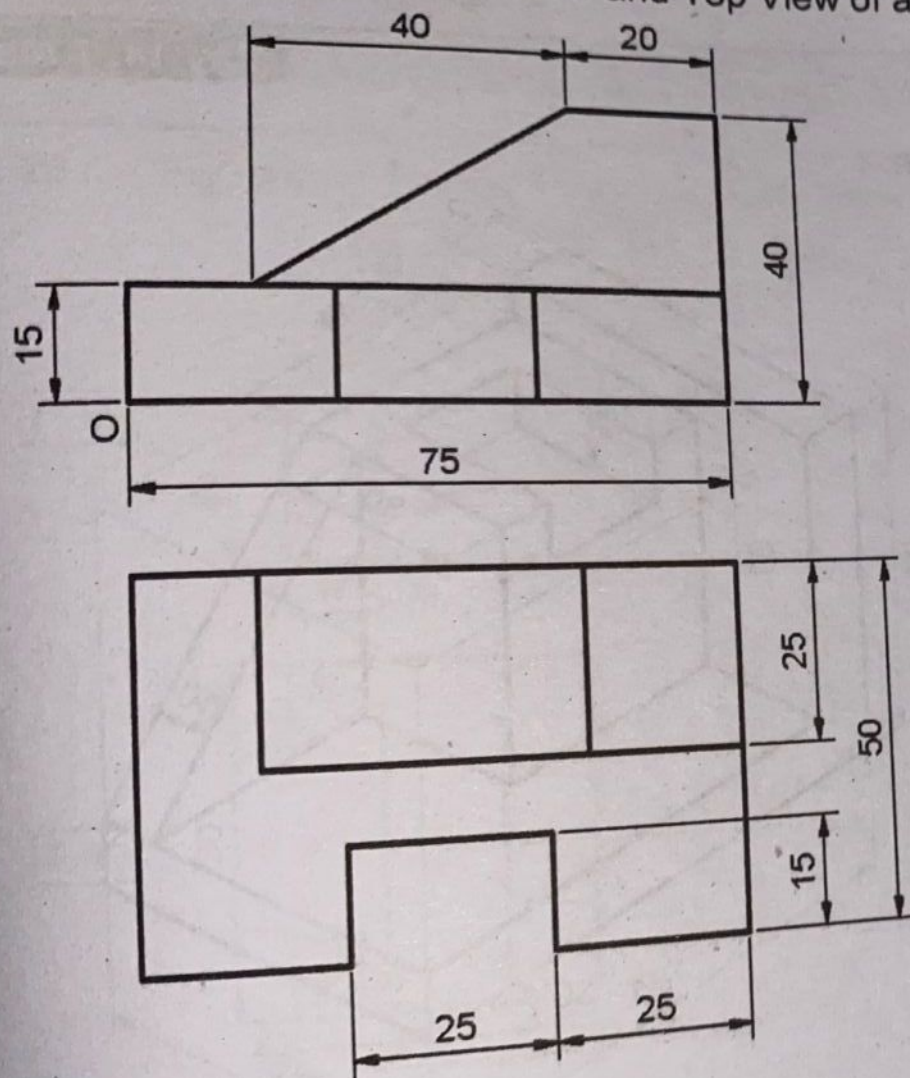


**Soln. :**

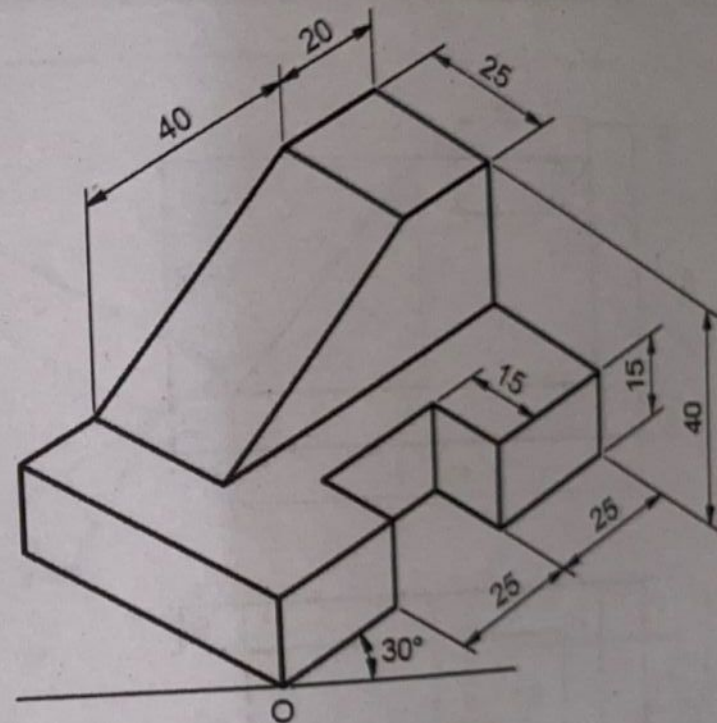




**Prob. 14 :** Fig. shows Front View and Top View of an object. Draw Isometric View and show overall dimensions :

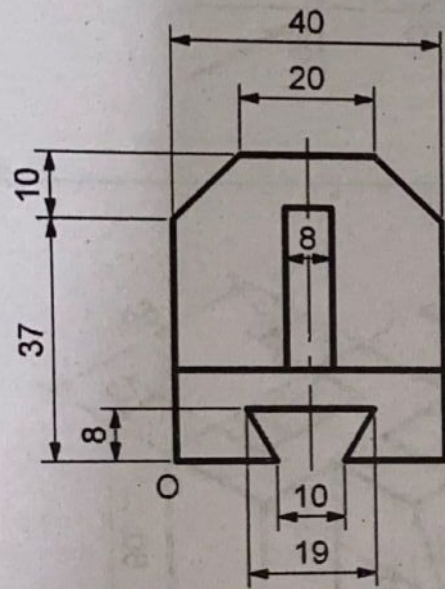


**Soln. :**

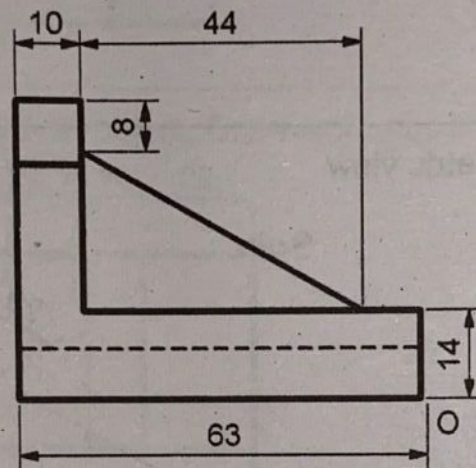




**Prob. 11 :** Fig. shows FV and RHSV of an object. Draw isometric view.

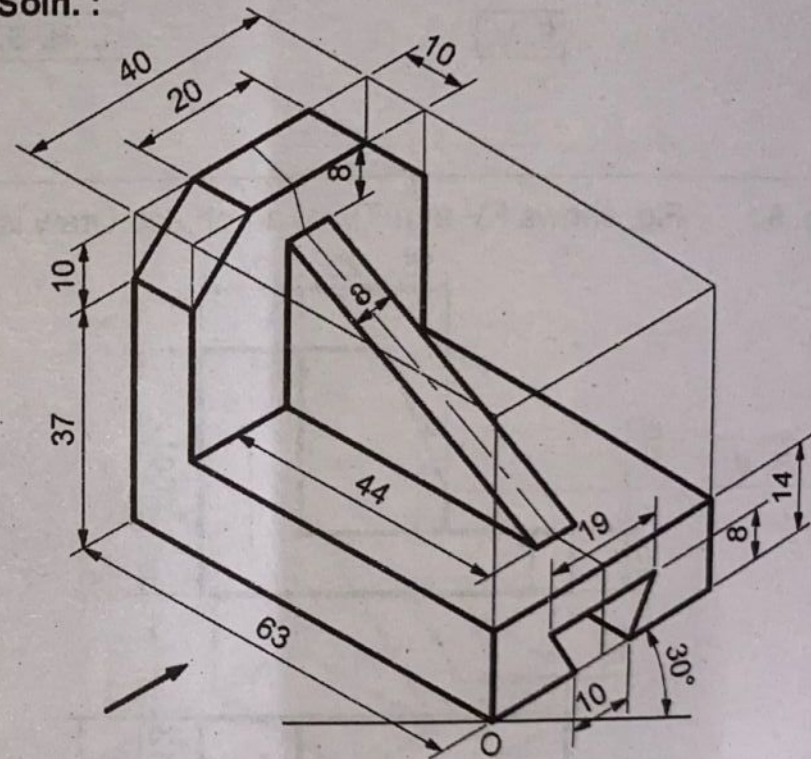


**R. H. S. V.**



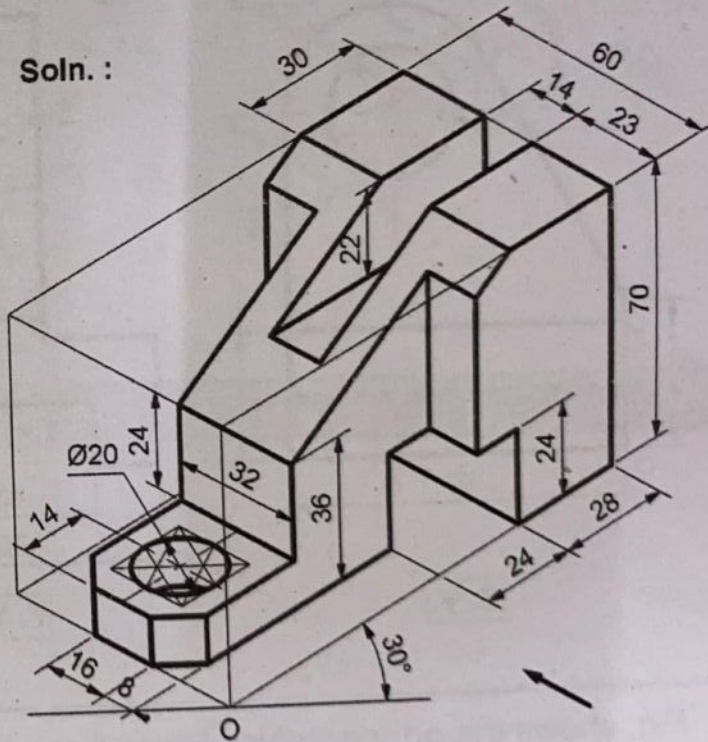
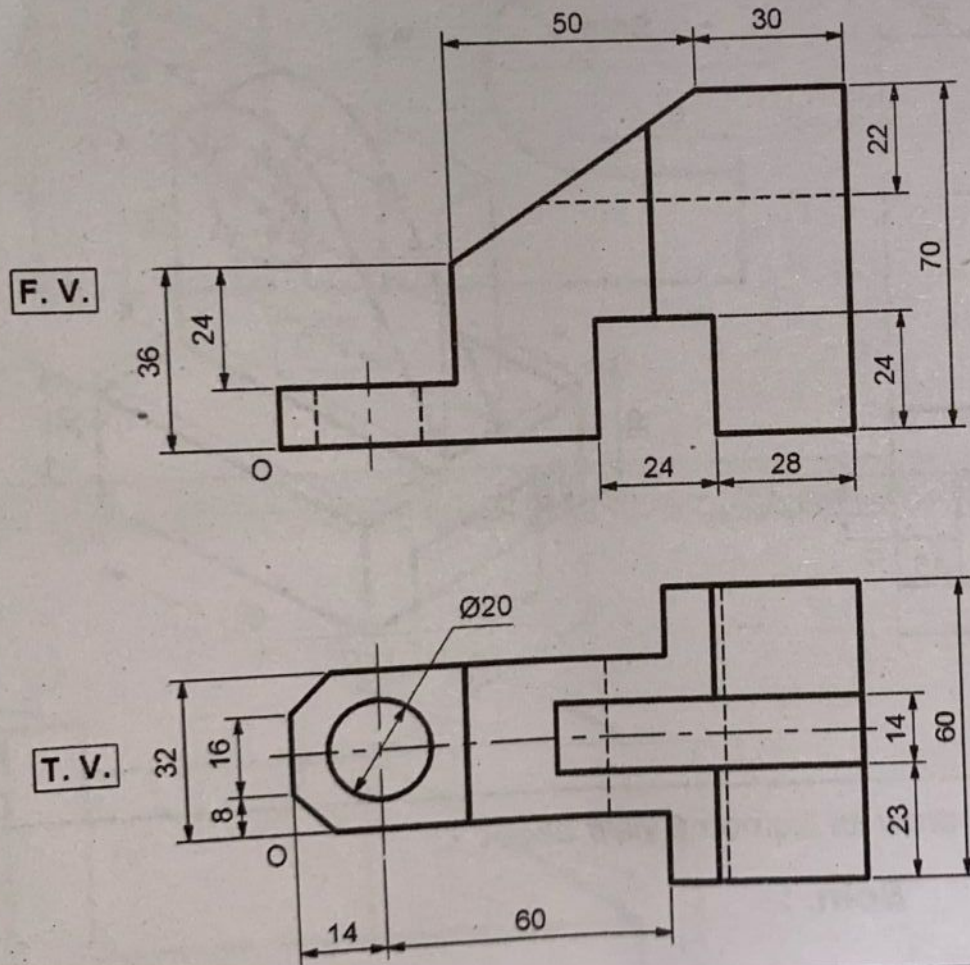
**F. V.**

**Soln. :**



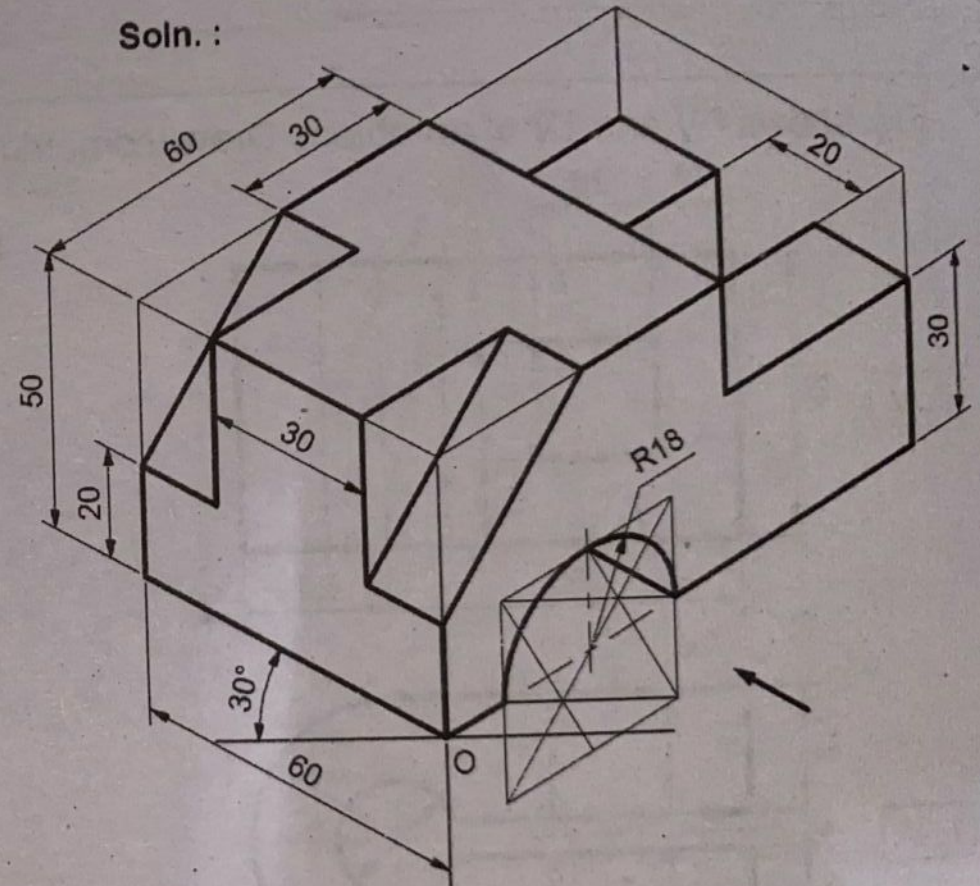
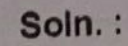
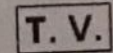


**Prob. 67:** Fig. shows FV and TV of an object. Draw isometric view.



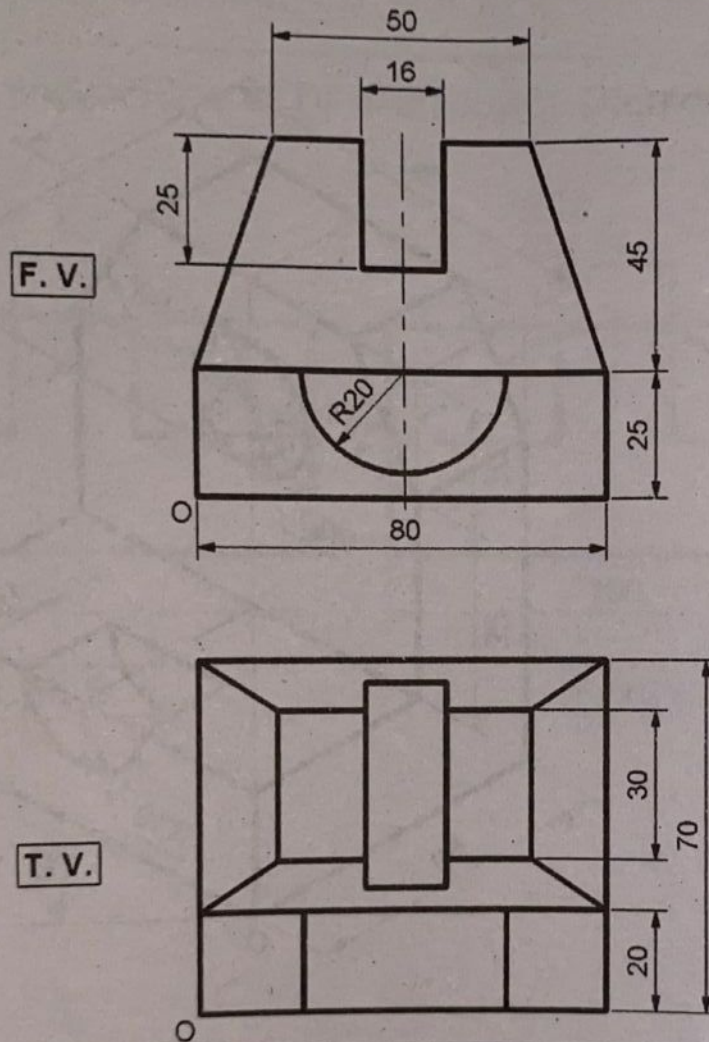


**F. V.**





**Prob. 53 :** Fig. shows FV and TV of an object. Draw isometric view.



**Soln. :**

