

**INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY**  
**Department of Mechanical Engineering**

ME119 – Engineering Drawing and Graphics

2017-18 Semester II

Sheet 3: Projection of Points and Lines

**Instruction:**

- Practice all problems in rough before coming to the Drawing Session.
- For more details of the exercises in this sheet, refer Chapters 1 to 5 of the text book (N. D. Bhatt, Engineering Drawing, 50th Ed.).
- Scale, dimension the drawings suitably. Label the important nodes/points on the drawings. Mention the scale if it is not 1:1
- You may use the MIRROR command to reflect points around lines of symmetry
- Make the title block and name plate before starting the drawing
- Use 1<sup>st</sup> angle projection unless mentioned otherwise

1. Figure 1 below shows the projections of an object using first angle projection. Draw all three views of the object using third angle projection.

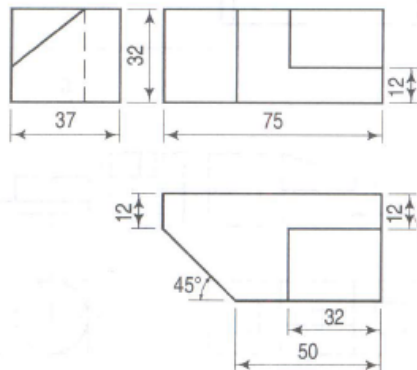


Figure 1: 1st angle projection of object

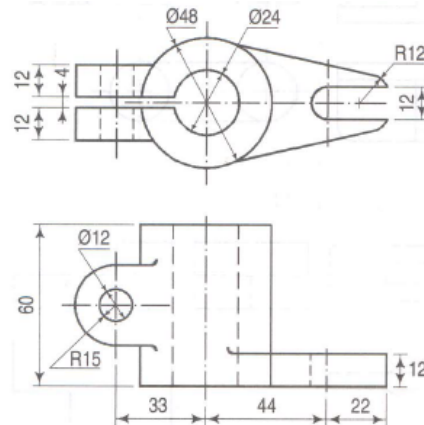


Figure 2: 3rd angle projection of object

2. In Figure 2 above, an object has been drawn using 3<sup>rd</sup> angle projection. Draw both views of the object using 1<sup>st</sup> angle projection

