

**City University London**

*School of Engineering and Mathematical Sciences*

*Engineering Drawing and Design, ME1110*

Exercise code: DrE-1b

Exercise type: Individual

Exercise title: 1<sup>st</sup> and 3<sup>rd</sup> Angle Projections

**Exercise assignment:**

- 1) Use A3 drawing paper and prepare border and title block as shown in Dre-1a, but for this exercise leave 1st/3rd angle box empty. Draw a vertical line and a horizontal line through your drawing area to divide it into 4 equal areas and label them a,b,c,d.
- 2) Study the isometric sketches overleaf and sketch the required views of the objects. For (a) and (b) there is no need to write "Front", "Side" and "Top" on your drawings. For (c) and (d) reproduce the views given and add the top view in the correct place.

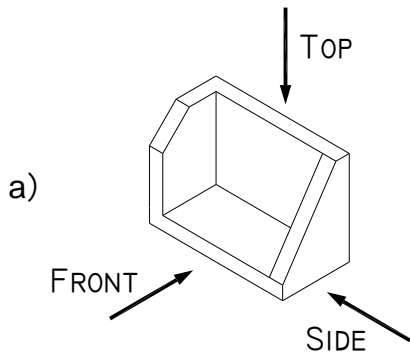
*Exercise tips:*

The border and the title block must be drawn using rulers.

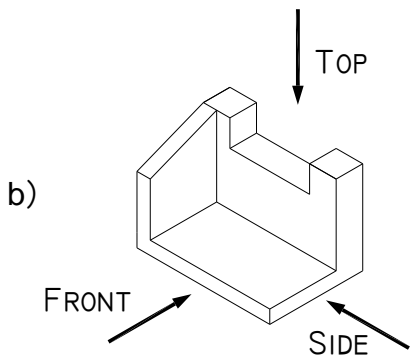
This is a freehand sketching exercise. Only pencil and eraser are allowed for the rest of the drawing. For each object the three views should be to the same scale and in good proportion to fit the available space. Arrange sketches neatly and according to BS8888.

**Submit the exercise solution to U/G Mechanical & Aeronautical office, C108, in week 3.**

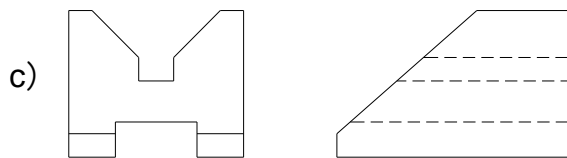
Ensure you filled all relevant fields in the title block.



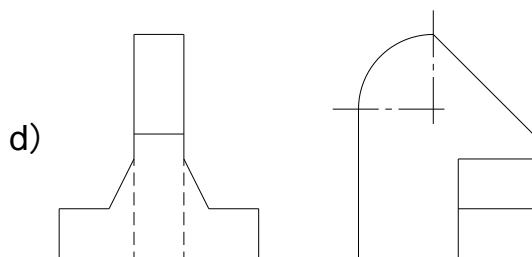
Draw the views shown in 3rd Angle Projection



Draw the views shown in 1st Angle Projection



State whether the views shown are in 1st or 3rd angle.  
Draw the top view in an appropriate position.



State whether the views shown are in 1st or 3rd angle.  
Draw the top view in an appropriate position.