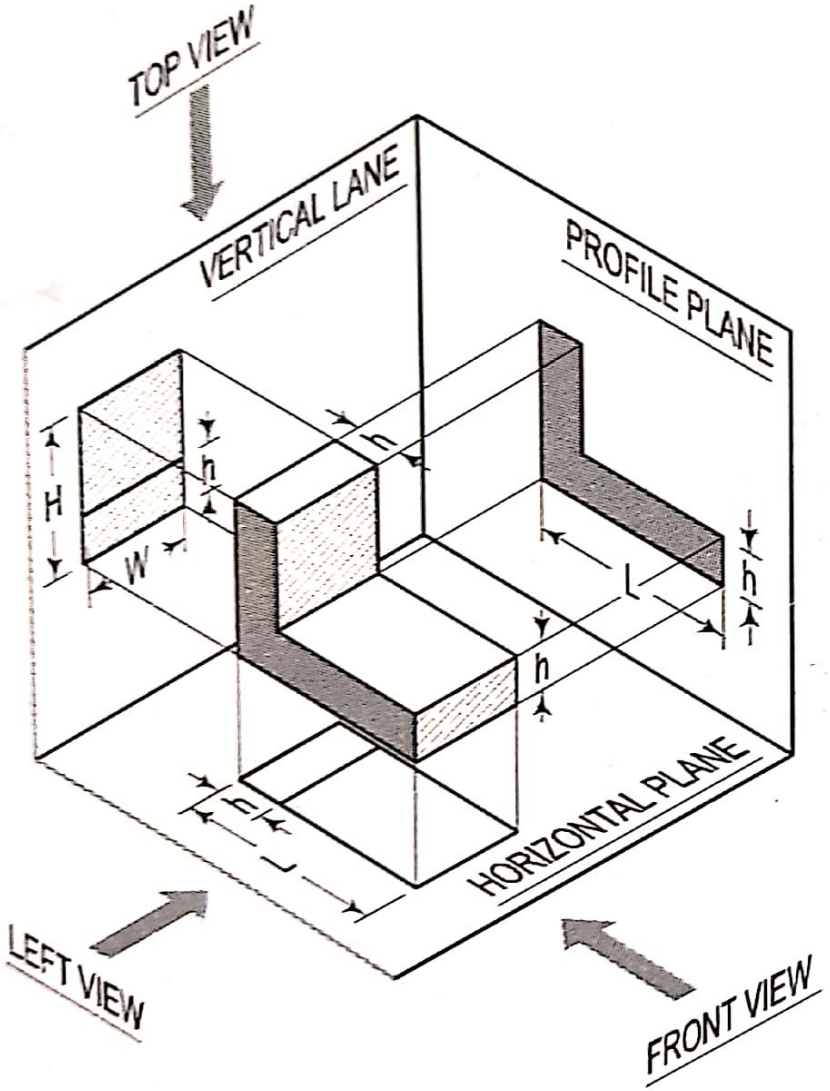
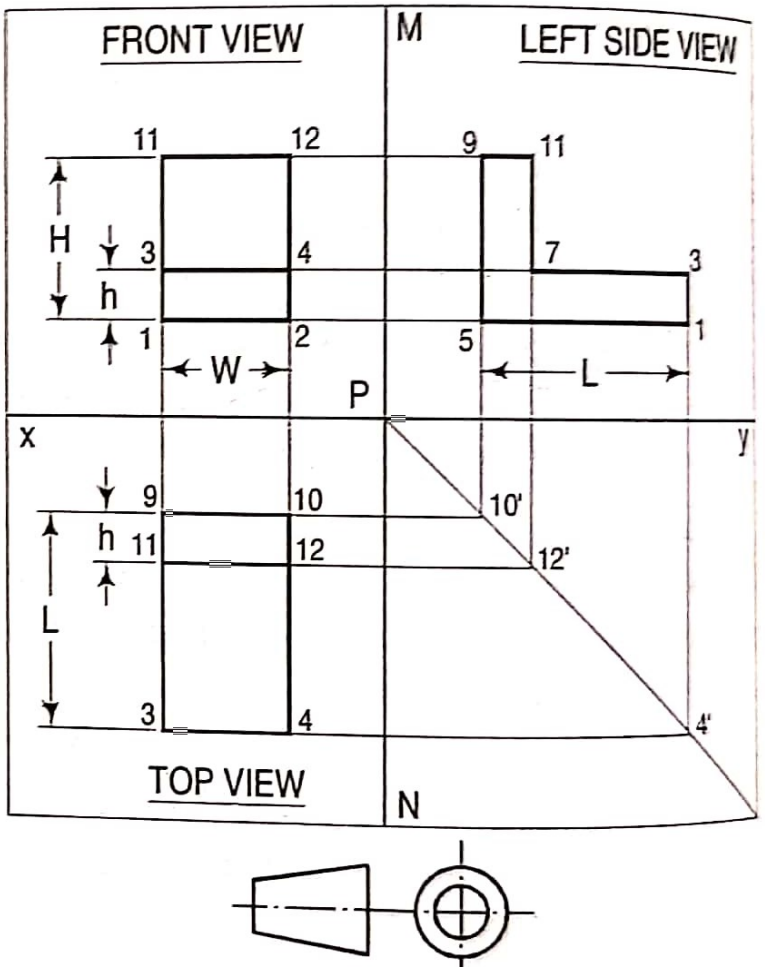
Module 3: PROJECTION OF PANES AND SIMPLE SOLID

Review:ORTHOGRAPHIC PROJECTIONS





Assignment#3

Prob #1

a) Draw plan and elevation of a regular hexagonal lamina of side 30 mm when it is parallel to and 10 mm above HP, two of its edges being perpendicular to VP. The point nearest to VP is 15 mm in front of VP.
b) Draw plan and elevation of the same lamina when it is inclined to HP at 45°, one of the edges which are perpendicular to VP being 10 mm above HP. The point nearest to VP is 15 mm in front of VP.
c) Draw plan and elevation of the same lamina when it is inclined to HP at 45° but two of its edges are parallel to both HP and VP, the one nearest to VP being 10 mm above HP and 10 mm in front of VP.

Prob #2

Draw plan and elevation of a pentagonal pyramid of height 36 mm and side of base 16 mm, when its axis is parallel to VP but inclined to HP at 45°. One of the edges of its base rests on ground. Also draw an elevation of the pyramid when the plan of its axis is inclined to VP at 30°.

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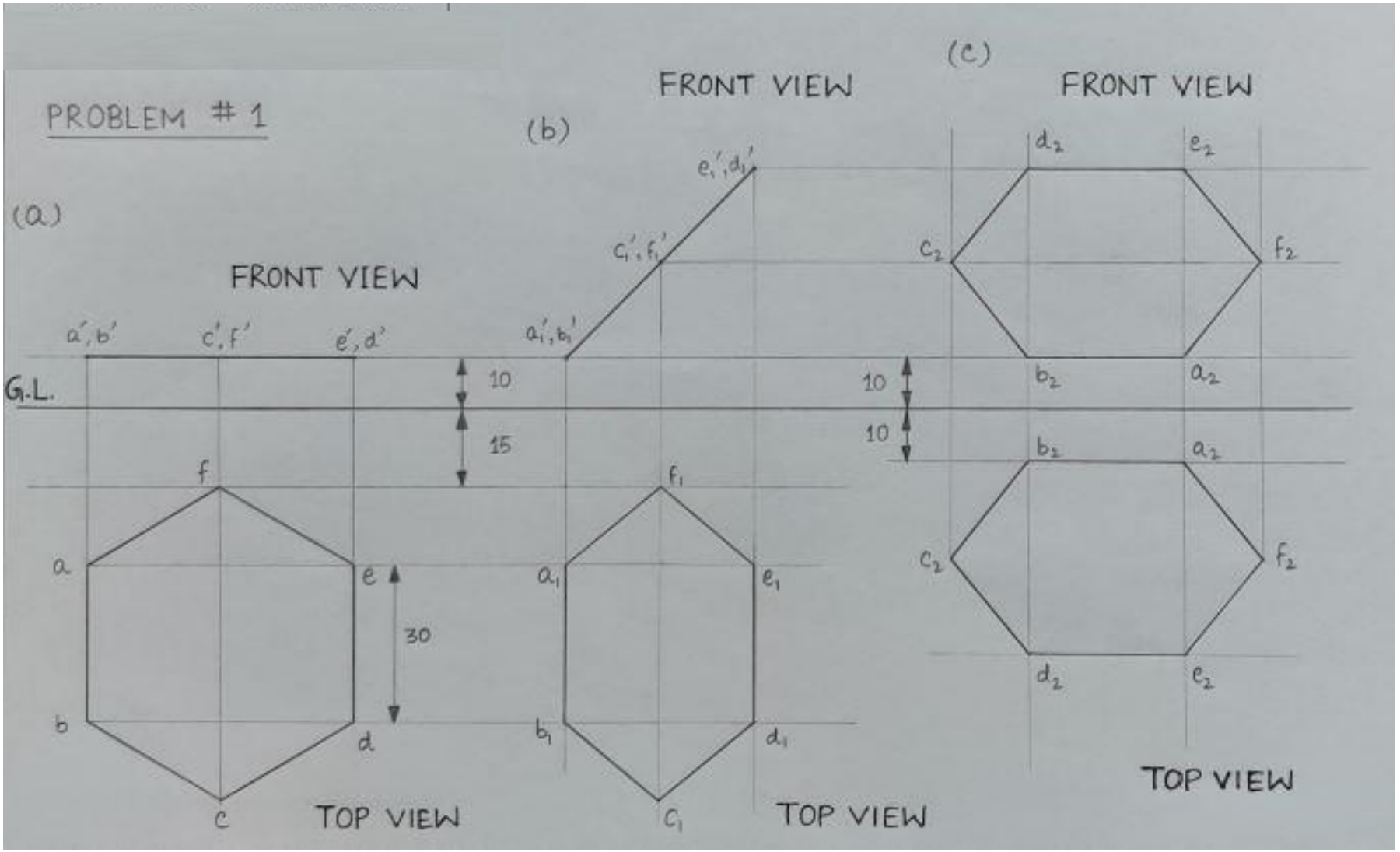
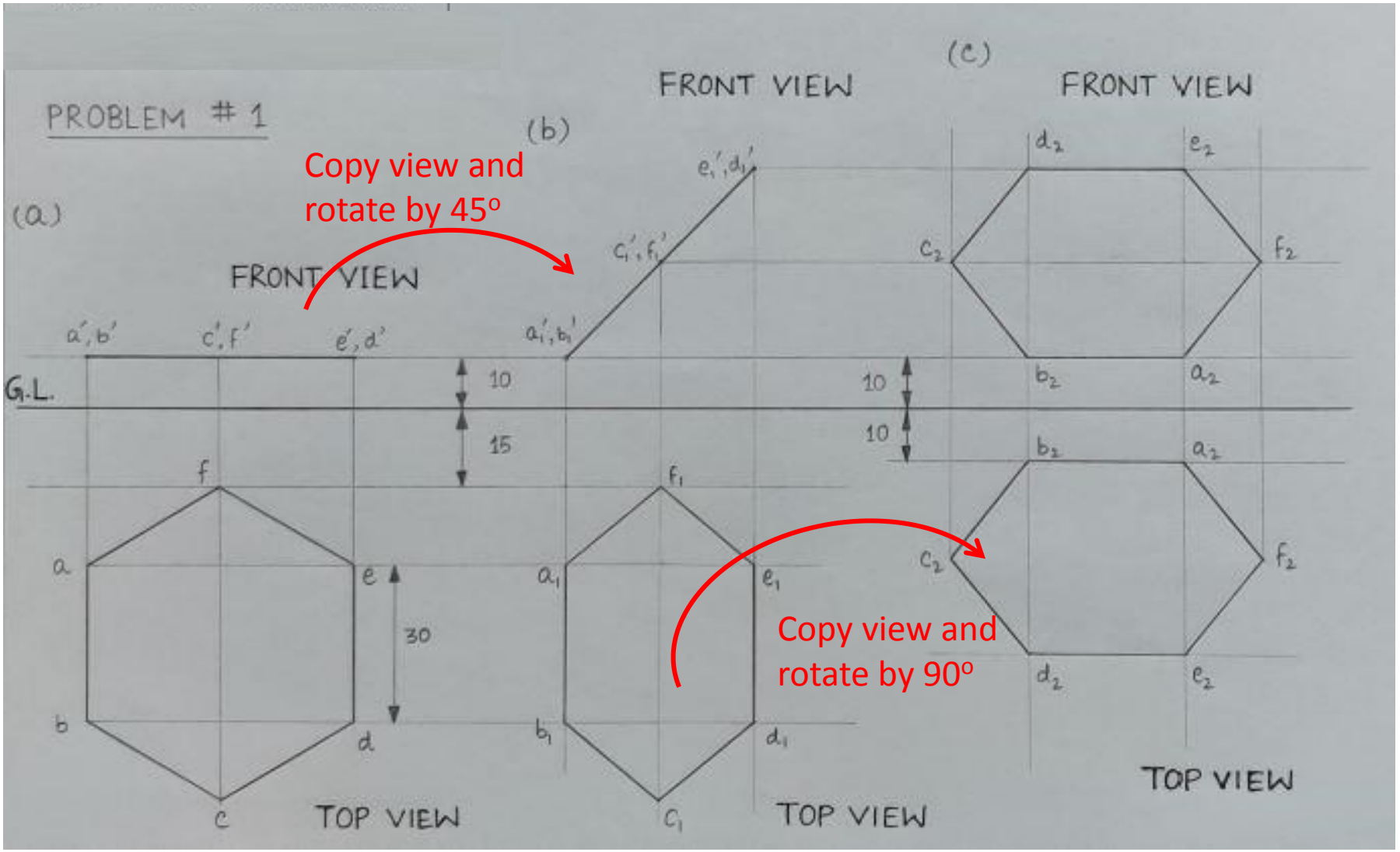
Assignment #3/Prob #1 : solution/hint

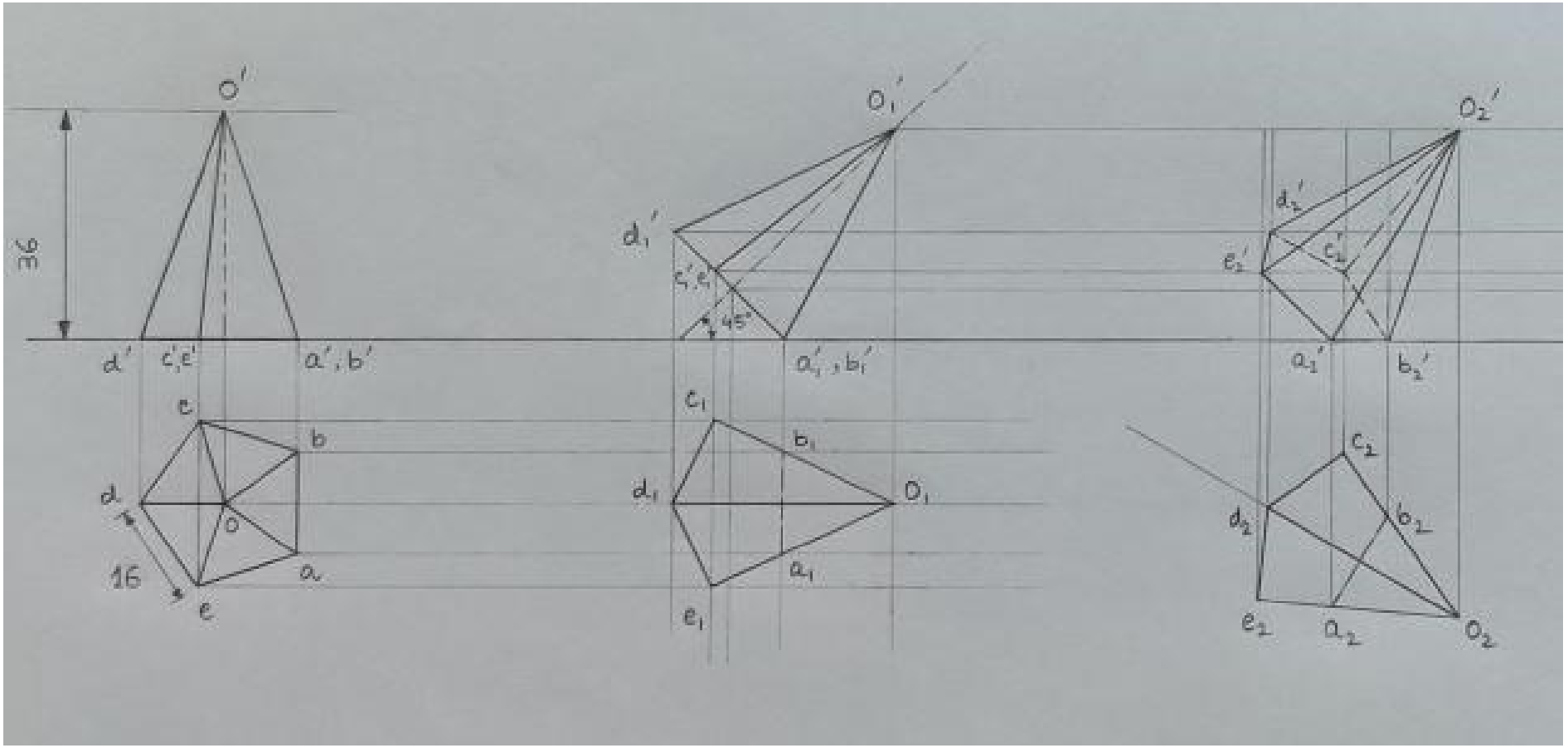


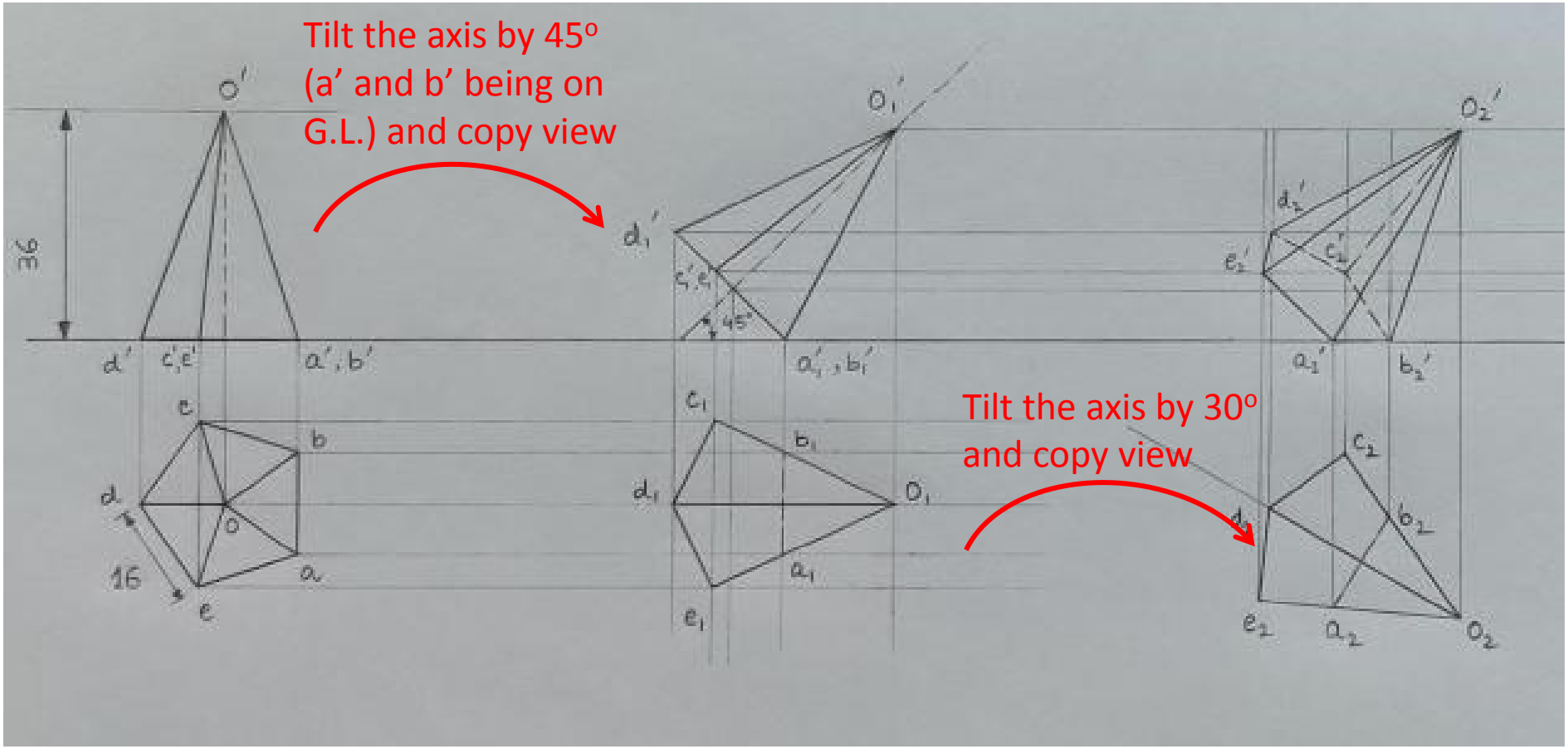
Assignment #3/Prob #1 : solution/hint



*Text in red is only for explanation. Do not write them in your drawing sheet(assignment)

Assignment #3/Prob #2 : solution/hint



*The axis lines are shown here by dashed lines which is incorrect. They should be represented by centre lines (chain thin).

Assignment #3/Prob #2 : solution/hint