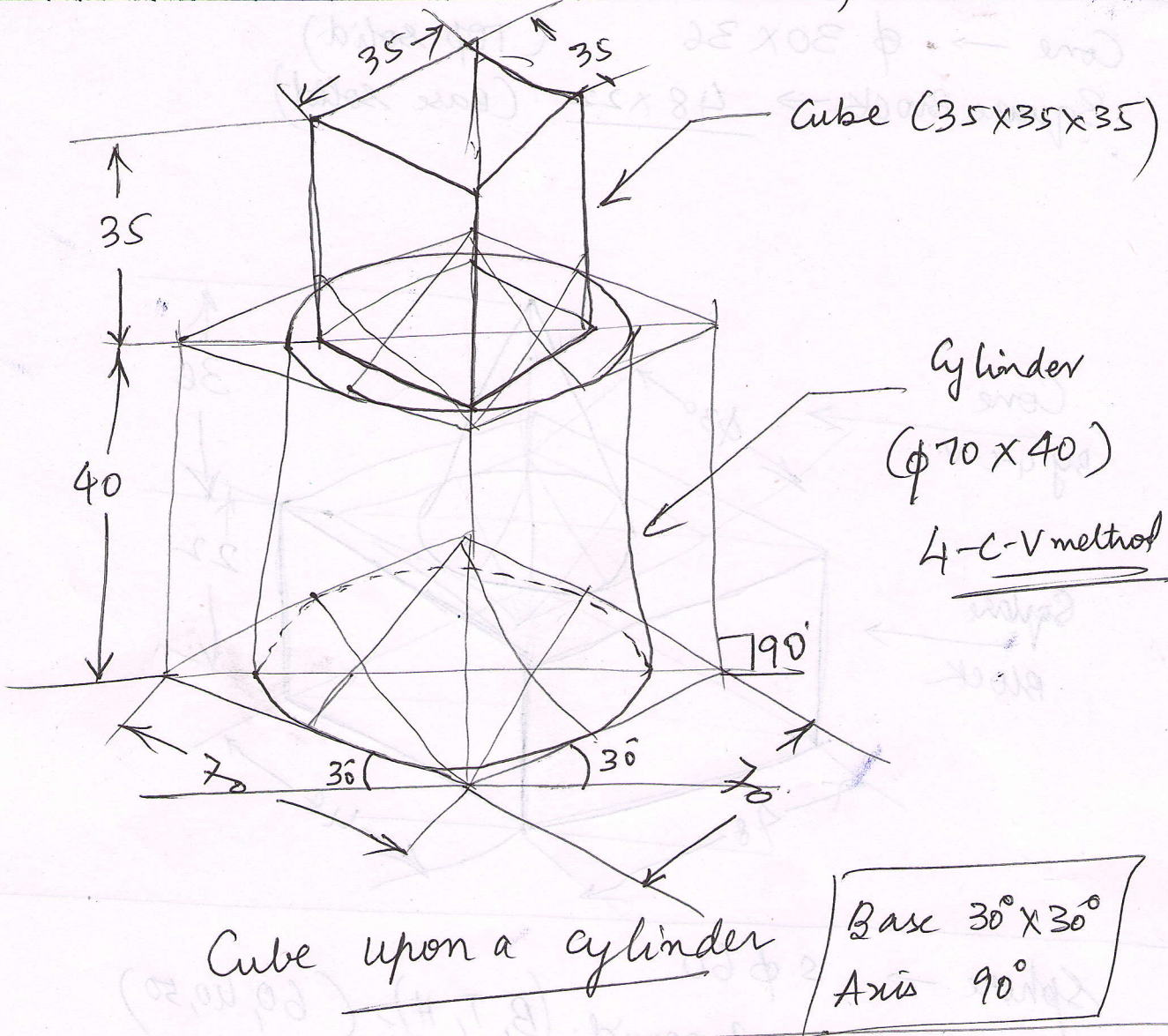


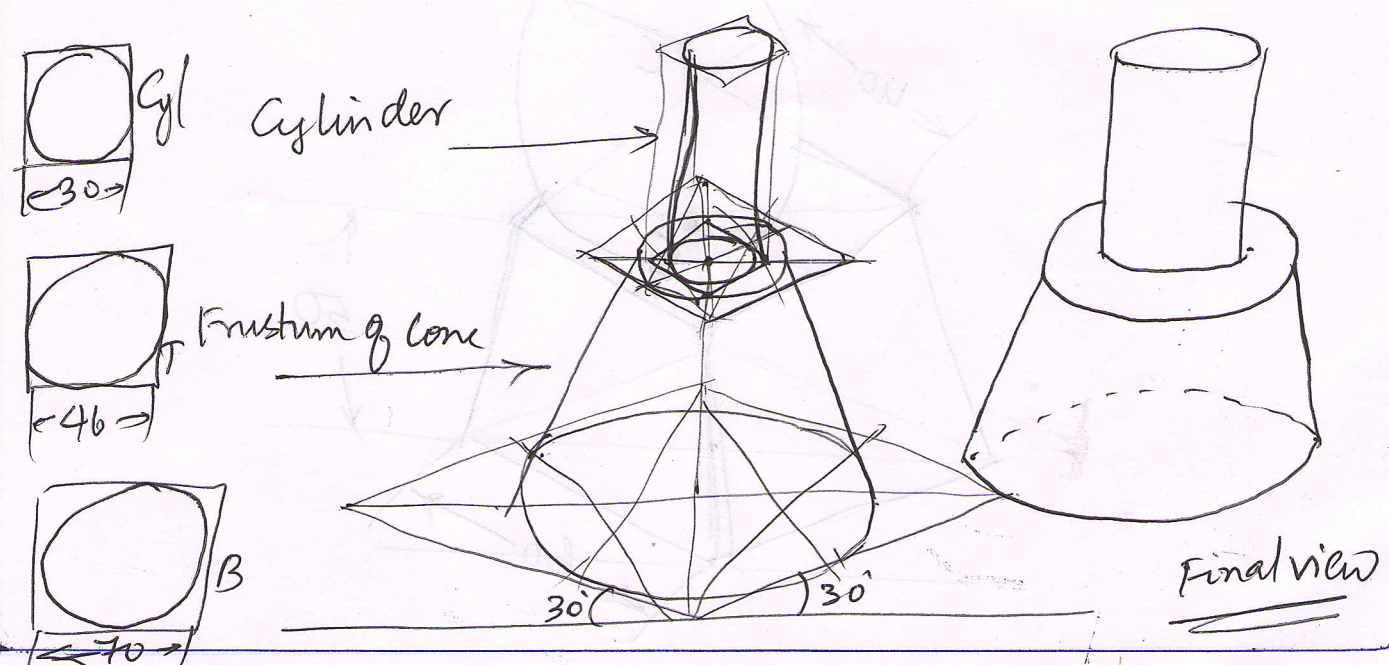
ISOMETRIC PROJECTIONS & VIEWS

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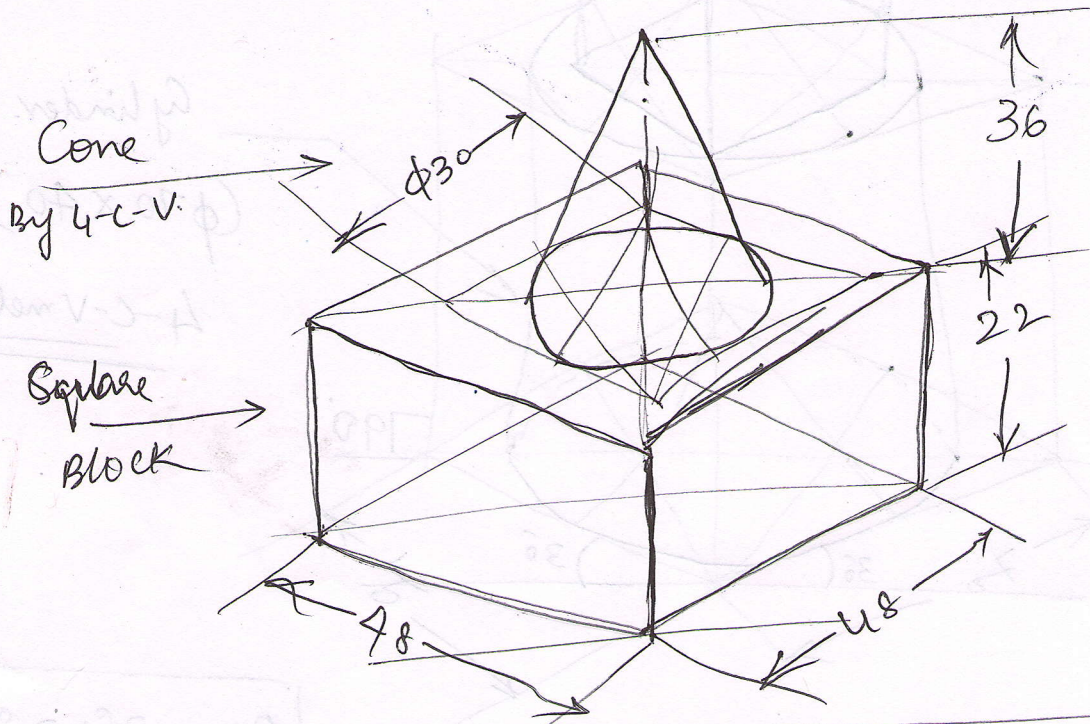


19

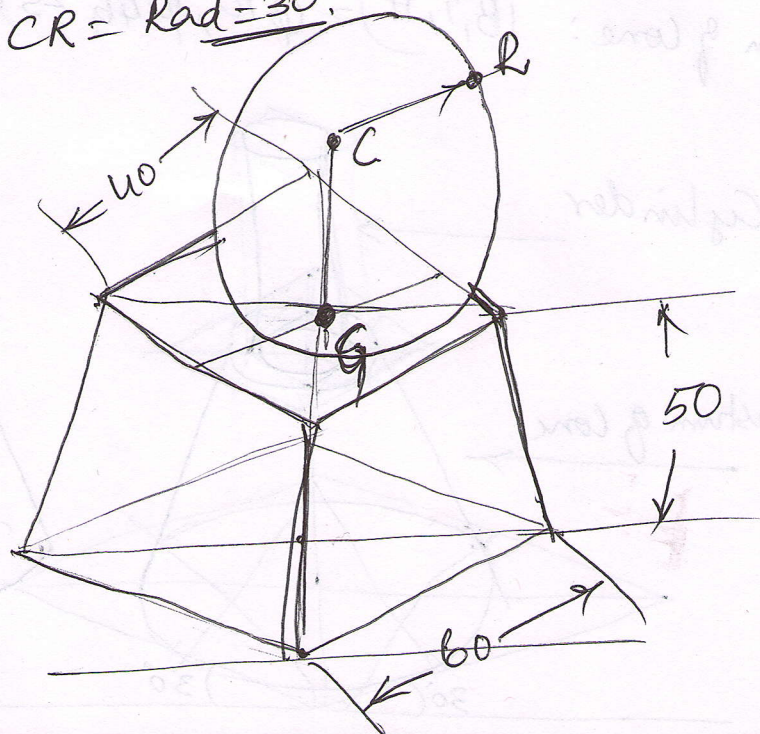
Cylinder → φ 30 x 20 thick ← TOP solid
 Frustum of cone: (B, T, H) = (φ70, φ46, 25) ← Base solid.



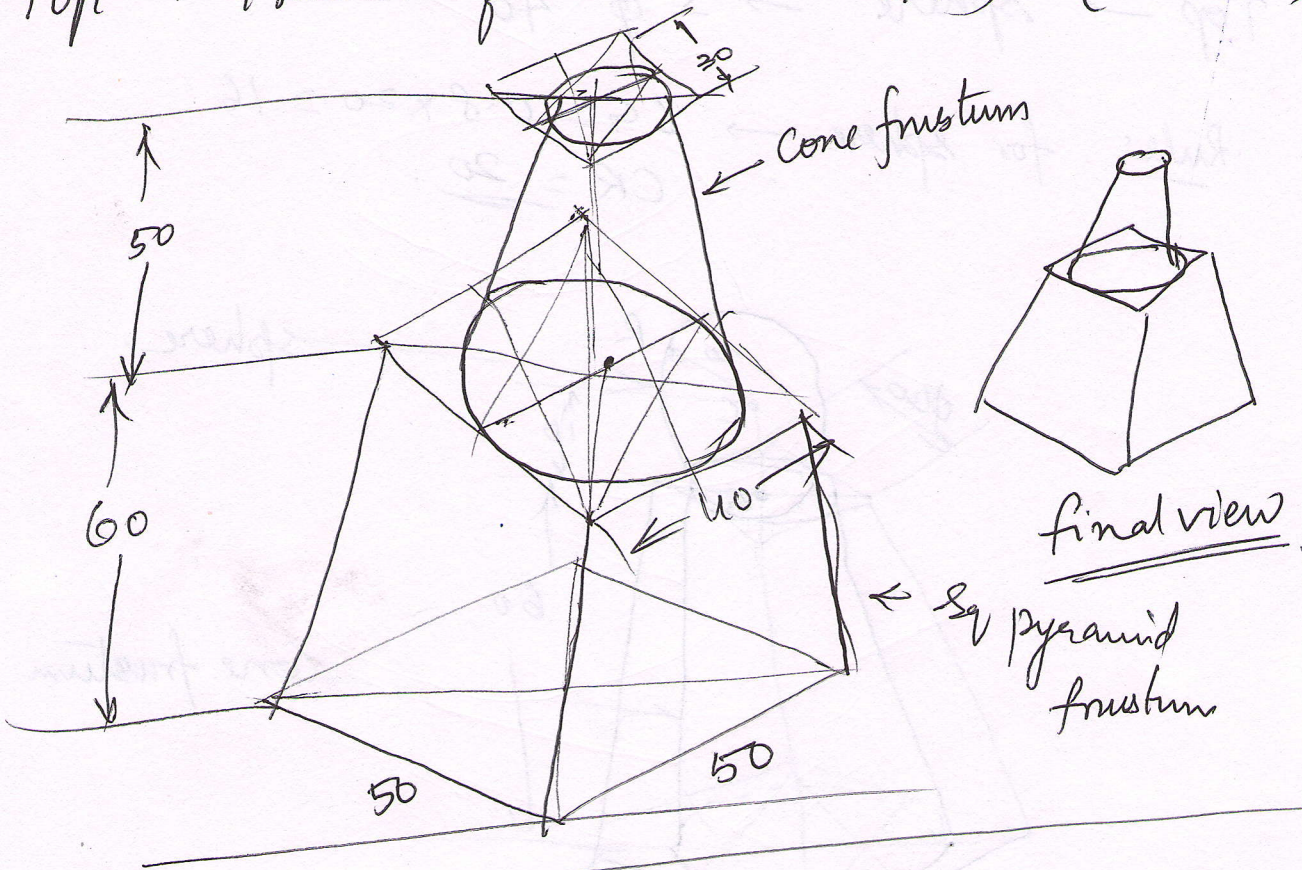
20) Cone $\rightarrow \phi 30 \times 36$ (Top solid)
 Square Block $\rightarrow 48 \times 22$ (Base solid)



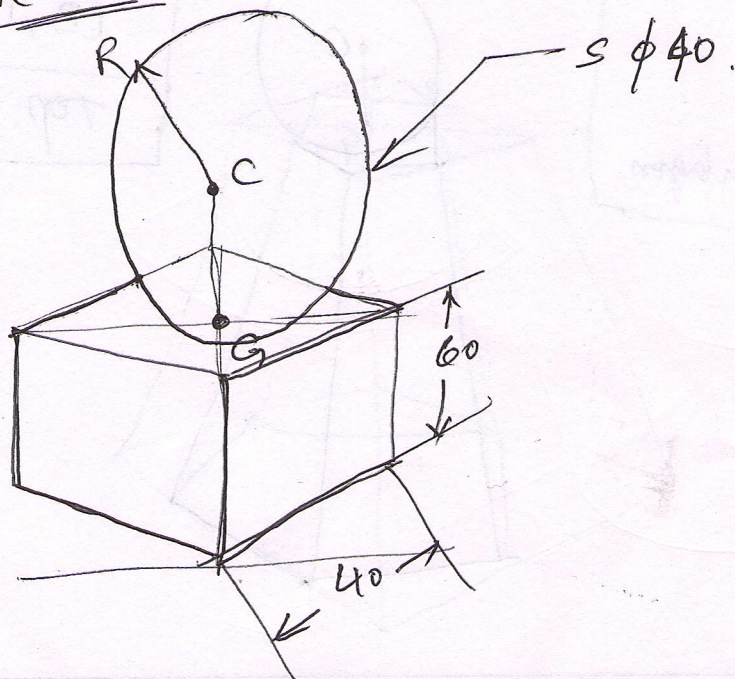
21) Sphere $\rightarrow s \phi 60$
 Frustum of square pyramid: $(B, T, H) = (60, 40, 50)$
 For sphere, $CG = 0.8 \times \text{Rad} = 0.8 \times 30 = 24$
 $CR = \text{Rad} = 30$



(22) Base \rightarrow Frustum of Square pyramid $(B, T, H) = (50, 40, 60)$
 Top \rightarrow Frustum of Cone $\rightarrow (B, T, H) = (40, 30, 50)$



(23) Base \rightarrow Square prism $(40, 60)$
 Top \rightarrow Sphere $(S \phi 40)$
 Sphere $CG = 0.8 \times 20 = 16$
 $CR = 20$

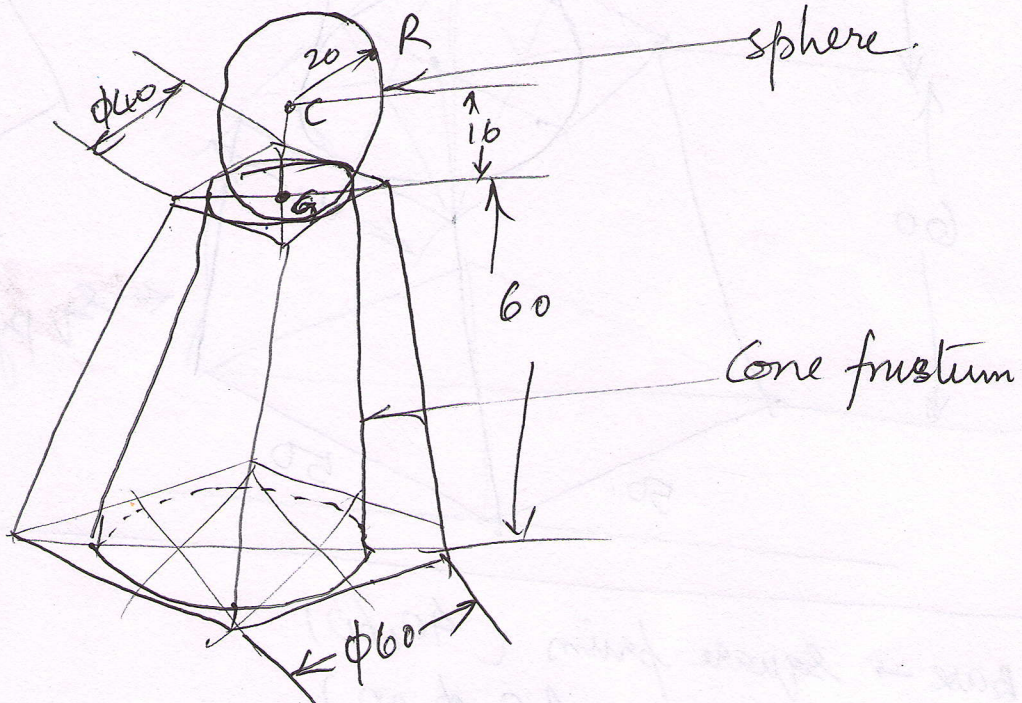


(24)

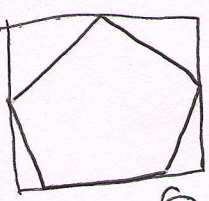
Base \rightarrow Frustum of Cone $\rightarrow (B, T, H) = (60, 40, 60)$

Top \rightarrow Sphere $\rightarrow S \phi 40$

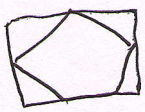
Rule: for sphere $\rightarrow CG = 0.8 \times 20 = 16$
 $CR = \underline{\underline{20}}$



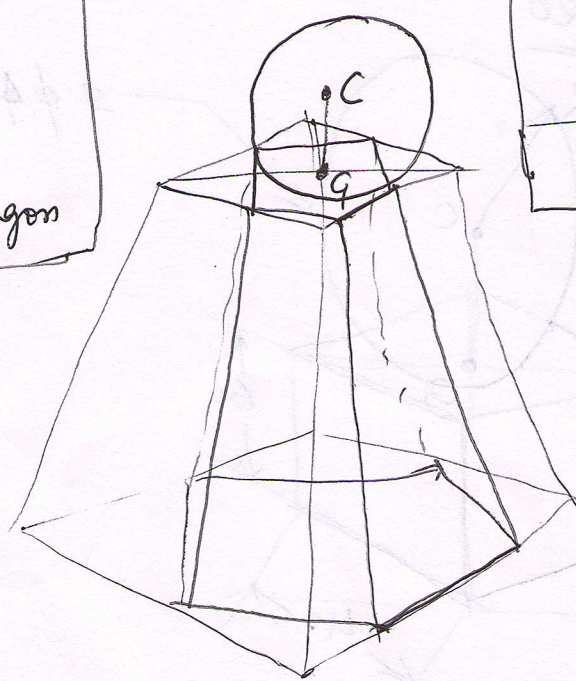
(25)



Box 1 for base pentagon



Box 2 for top pentagon



Base: Frustum of Pentagonal pyramid

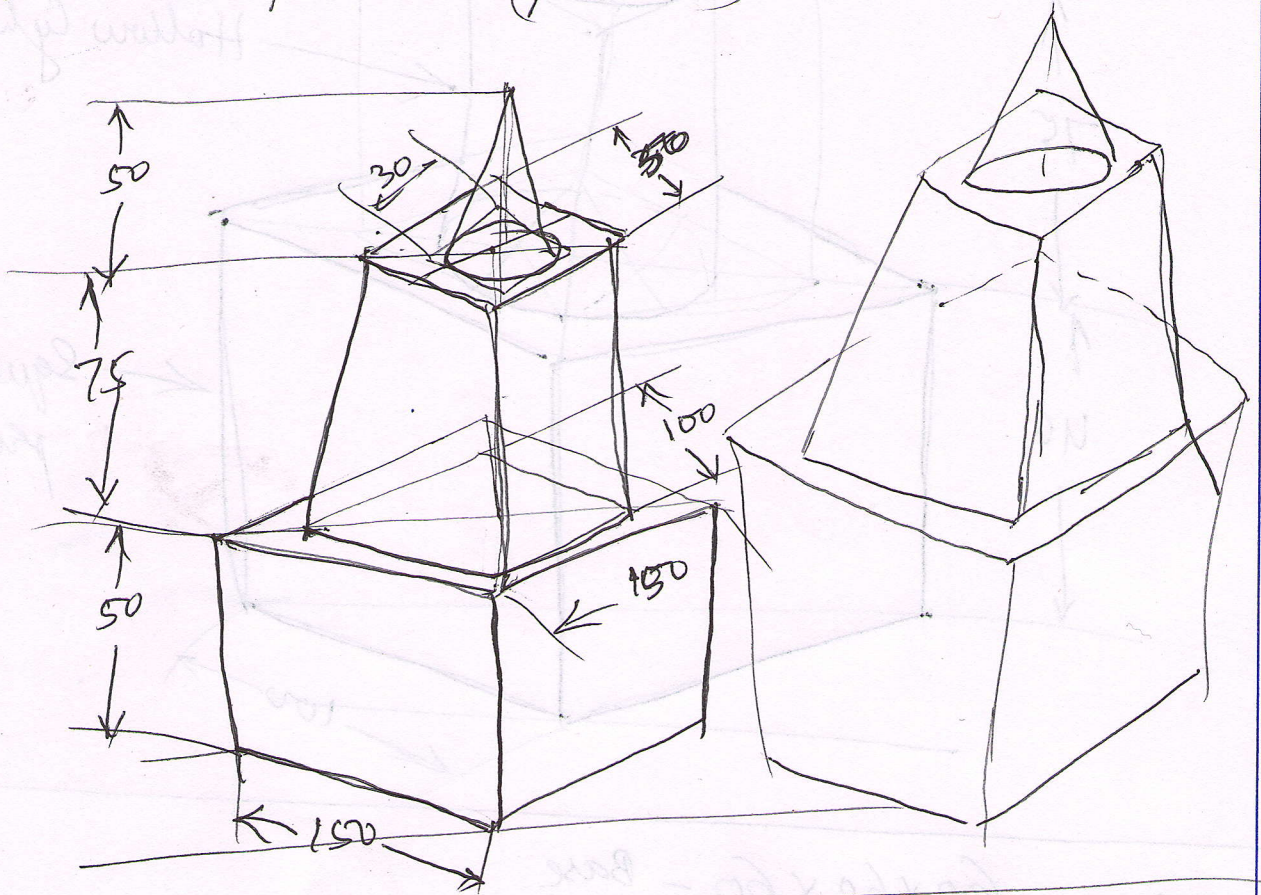
$(B, T, H) = (50, 40, 60)$

Top: sphere $\rightarrow S \phi 30$

(26) Base \rightarrow Square prism $\rightarrow (150 \times 50)$

Top 1 \rightarrow Frustum of Square pyramid $\rightarrow (100 \times 50 \times 75)$

Top 2 \rightarrow Cone frustum $\rightarrow (\phi 30 \times 50)$



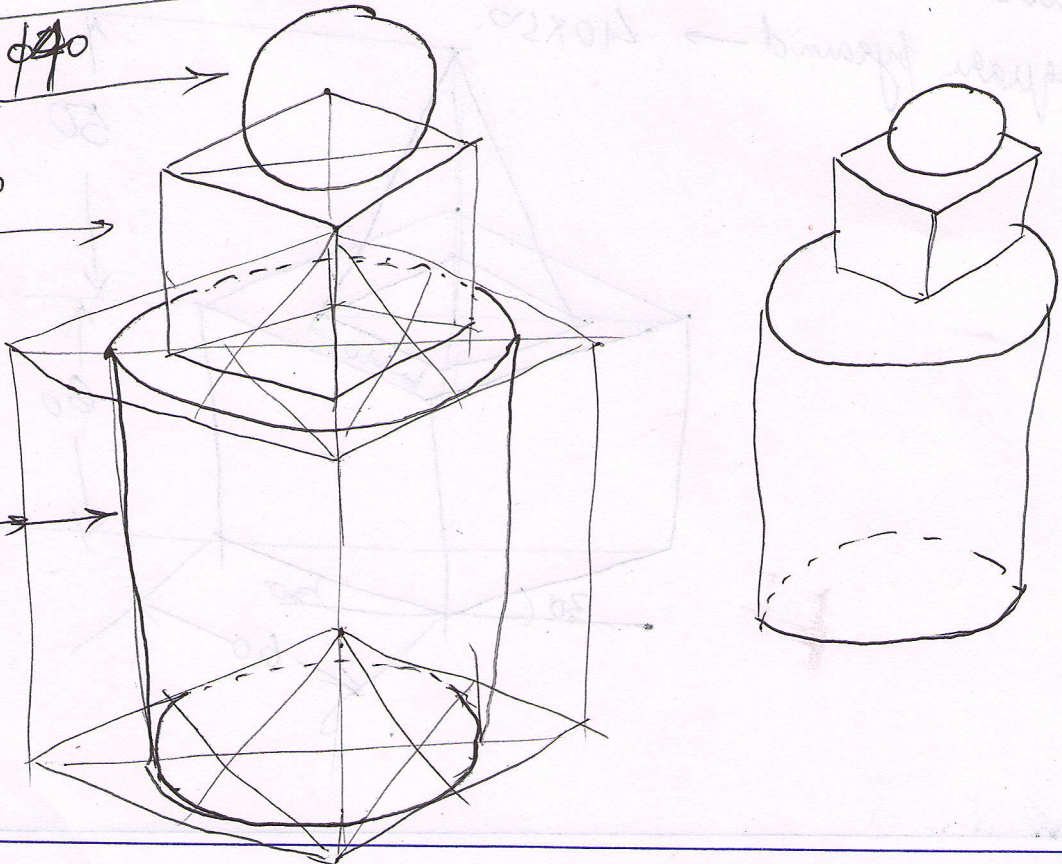
(27) Sphere $\phi 40$

Sq. prism

40×30

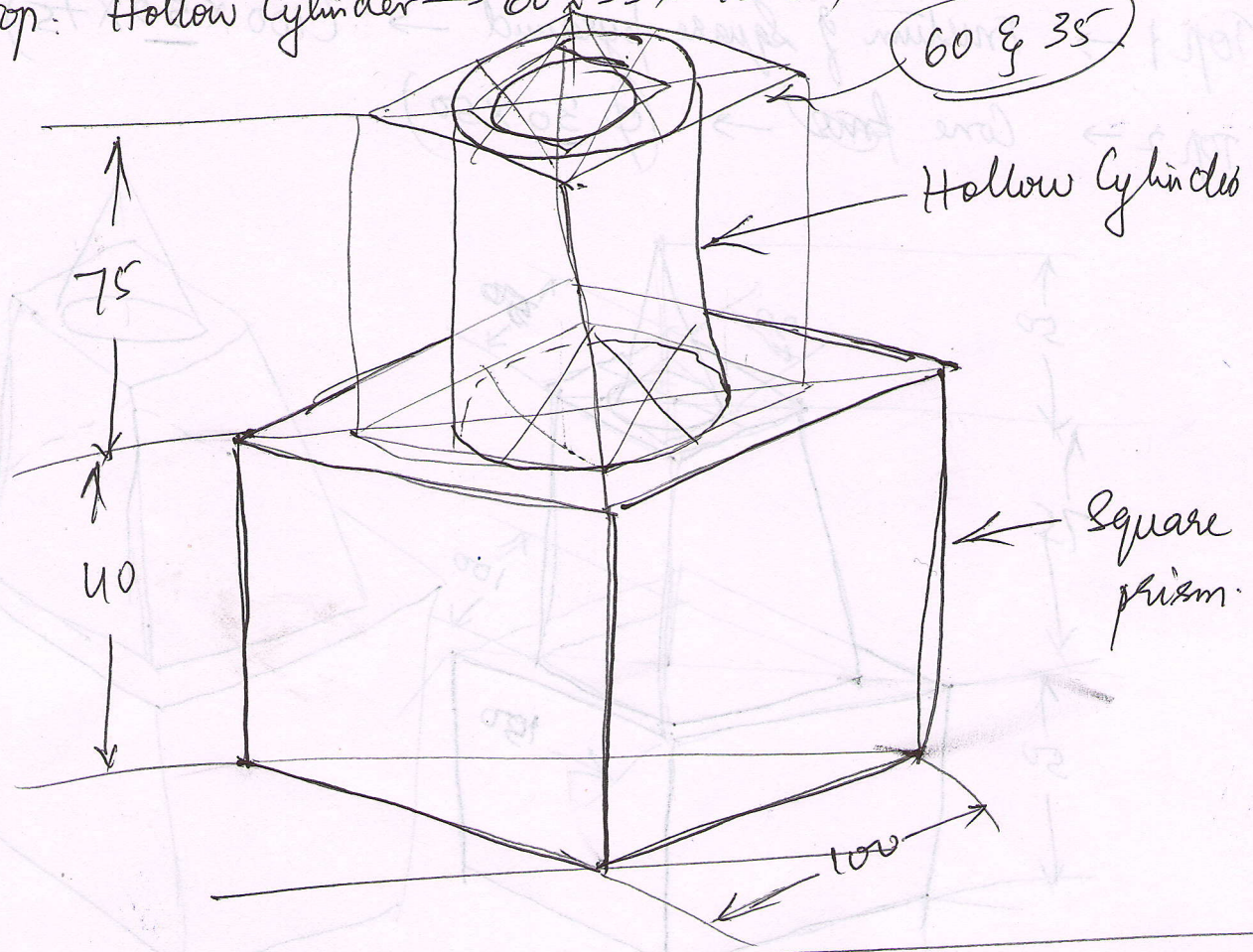
Cylinder

$\phi 70 \times 40$



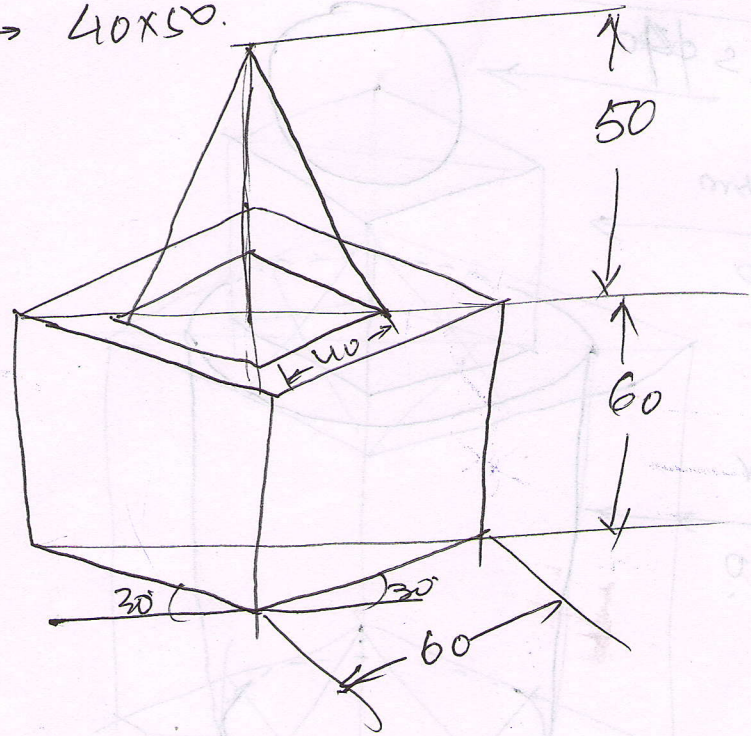
(29)

Base \rightarrow Square prism $\rightarrow 100 \times 40$
Top: Hollow Cylinder $\rightarrow \phi 60 \times \phi 35 \times 75$ (h)



(31)

Cube $\rightarrow 60 \times 60 \times 60$ - Base
Square pyramid $\rightarrow 40 \times 50$



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① Base: Hexagonal prism of (22 x 60)

Condition: Parallel (Horizontal Axis) as rectangular face on the ground.

∴ Angles of Box are (30, 90) & Axis = 30°.

② Top solid: Cylinder → Vertical (φ 35 x 50); (30° - 30°) x 90° (Axis)

∴ Draw the prism Horizontal axis and the cylinder in vertical axis condition.

