

RA2011037U 18201103TU Dec. 2020 1. Exercise: 6 2. Date: 02

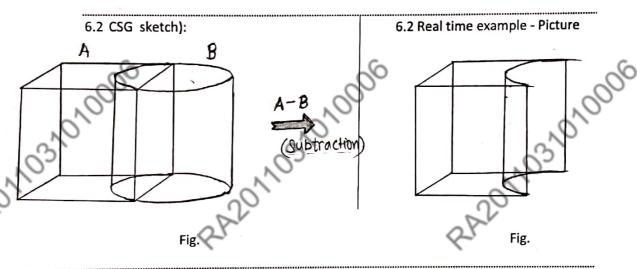
: Combinations of solids: CSG, and advanced solid modelling. 3. Title

4. Aim : To model simple combination of solids by Constructive Solid Geometry (CSG), and some advanced models using sweep, loft, shell solid models and obtain their projections.

5. Software used: Auto CAD 2021

6. Introduction: CSG, Advanced solid modelling

- -> CSG i's a combination of solids formed by combining two or more different solids.
- -> Advanced solid modelling is the most advanced method of geometrical modelling in 3D.



7. Procedure (for solving question #

7.1 Question outline

:Drawing model of given dimensions.

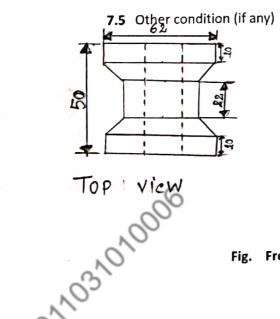
7.2 Object

: Pulley

7.3 Resting on Conditions

: On HP in front view.

7.4 Other resting condition (if any):



Front View

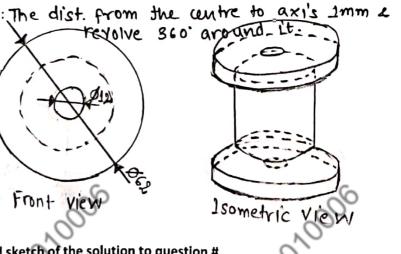


Fig. Free hand sketch of the solution to question #



7.6	Procedure
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220.	7.6 Procedure:	20,	PSYMUTE OF SCIENCE ATTE	IKK 10, 194
4	Step 1. Set the	limits, units and	l zoom (A11) in drawl	
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steps: - Draw the given fig. (plane) as per dimensions given, also draw the axis in 2-D mode.

-> Step 3:- Use the revolve command and revolve the fig. 360° around the axi's to obtain 3-D solid.

-> step 4!- Show all projections, plot the isometric view and mark the dimensions.

8. Commands used:

	S.N.	Command	Use	00
PA201103	Ťζ	Uni't &	To specify units, precision.	200
	Q.`	Limits	To set drawing area & gnid.	
	გ	Z00m	To increase & decrease the size	
	4.	Line s	To create etraignt line	
	ኽ.	Off Set	To offset an object at a specified d	154.
	6.	Trìm	To delete unwanted lines.	
	7.	Region	To combine several region into a	single.
	8.	Revolve	To creak 3D solid by sweeping curv	
	9.	Model Space	To generates the different view	
7	10.	Dim	To Accesses dimensioning.	
	11.	Text.	To Write text.	

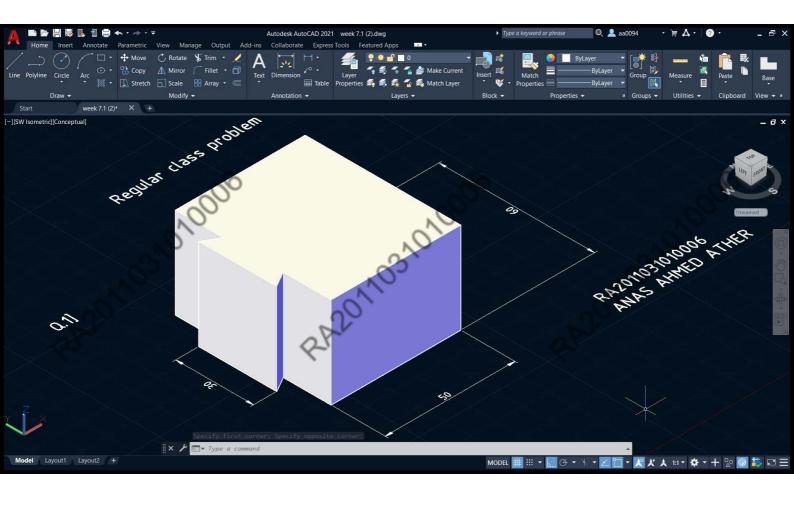
9. Result:

We have successful drawn various sollids by combining many simple solids in Auto CAD. combination of solid are drawn in AutoCAD

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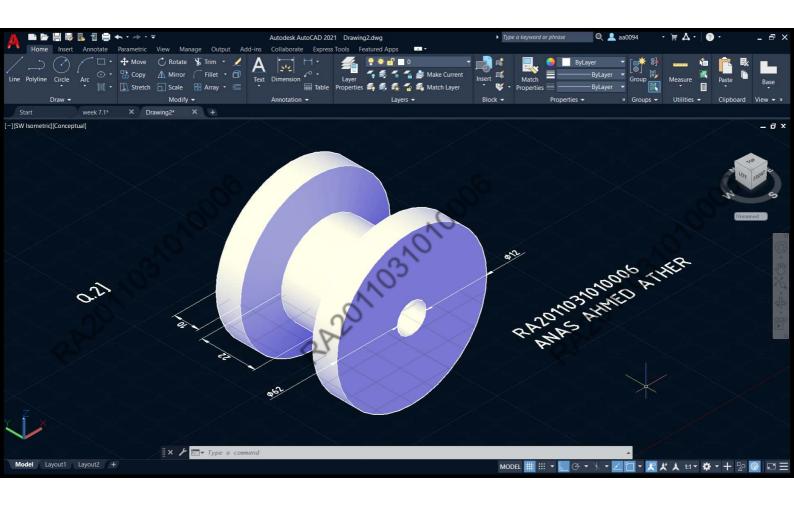
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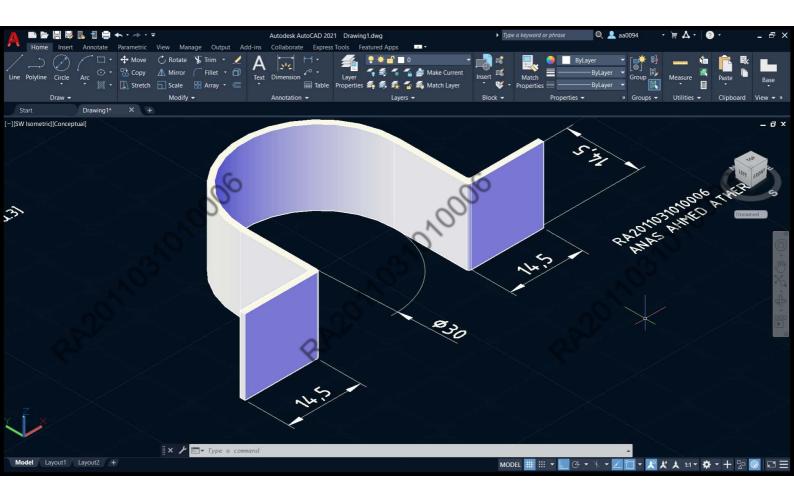
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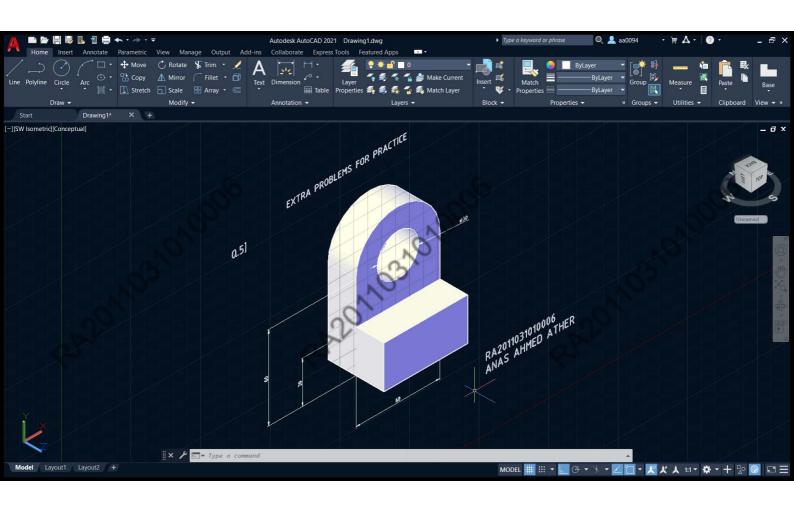


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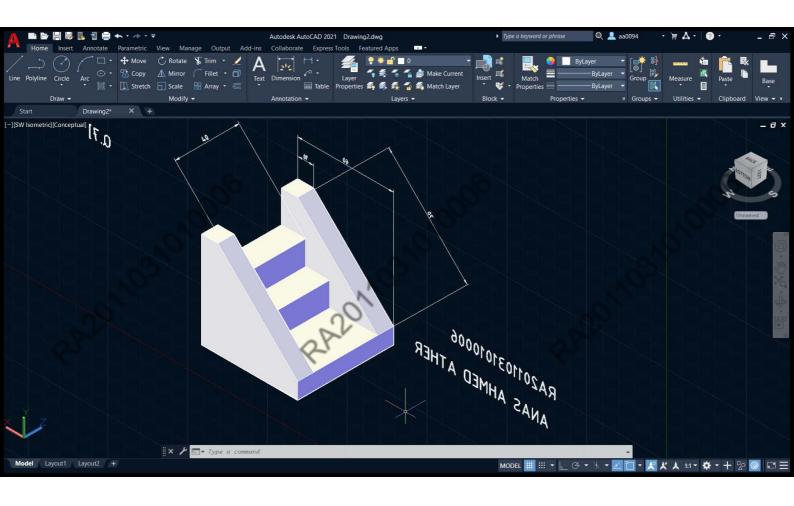


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