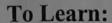
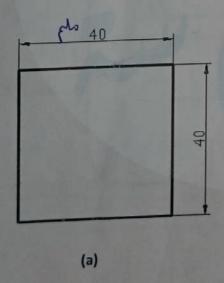
AutoCAD 2014: Introduction



- 1. Basic Commands for AutoCAD(New..., Line, Circle, LErase Ellipse, r Arc, & Undo/Redo, Q Zoom / Pan, AI Text, Limits, Grid/Snap, Ortho, & Polar tracking, Dynamic input.
 - 2. Different methods for accurate drawing using AutoCAD.
 - a.) Grid & Snap.

b.) Coordinate Entry (Relative & Absolute method).
c.) Polar Tracking.
d.) Dynamic Input.

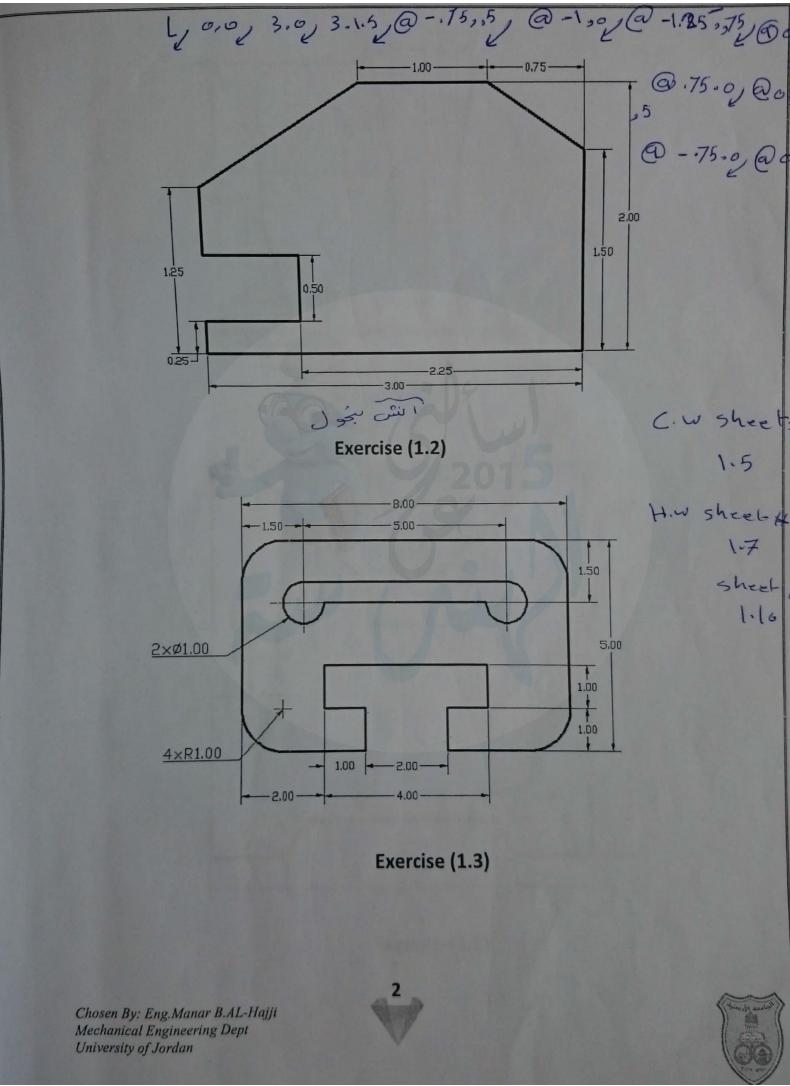
ر است و بوند سے انس اس انس = 2.5 سم

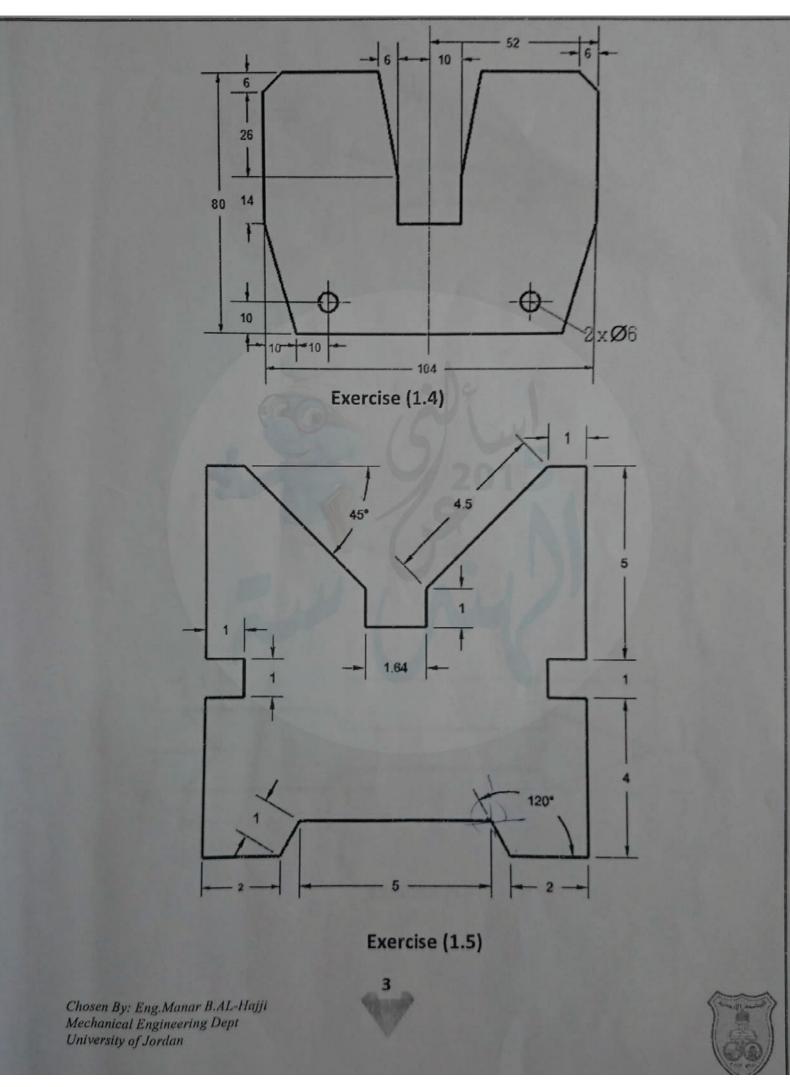


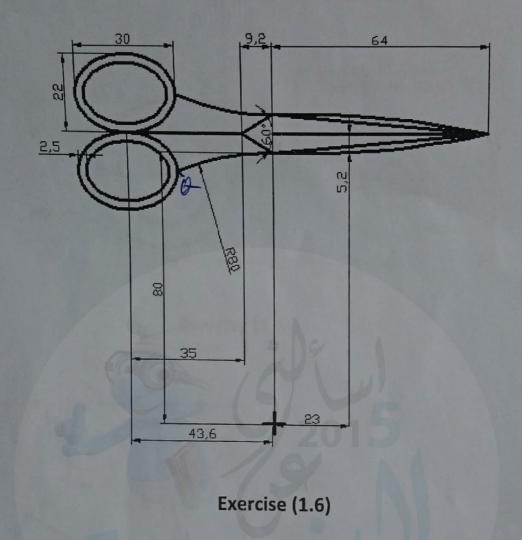
Exercise (1.1)

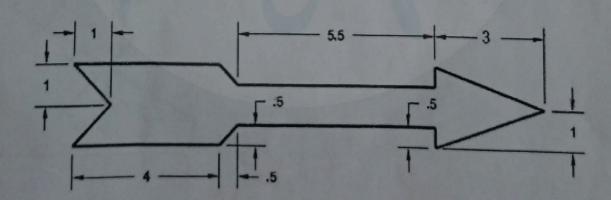








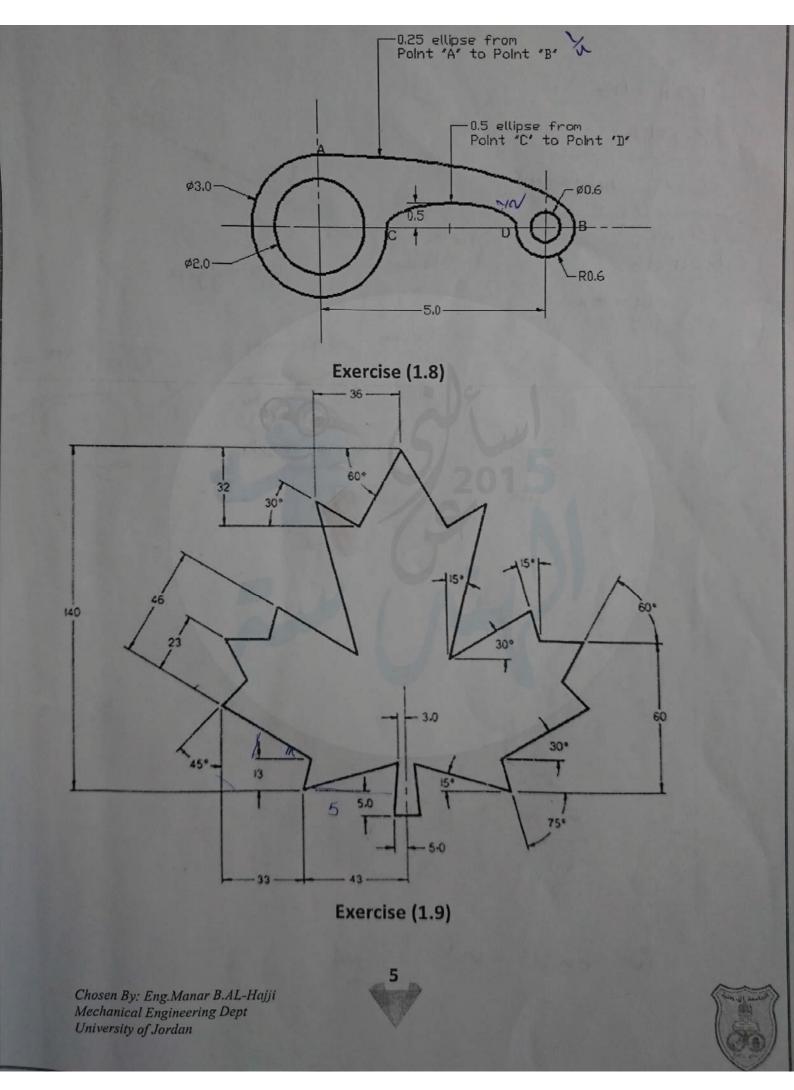


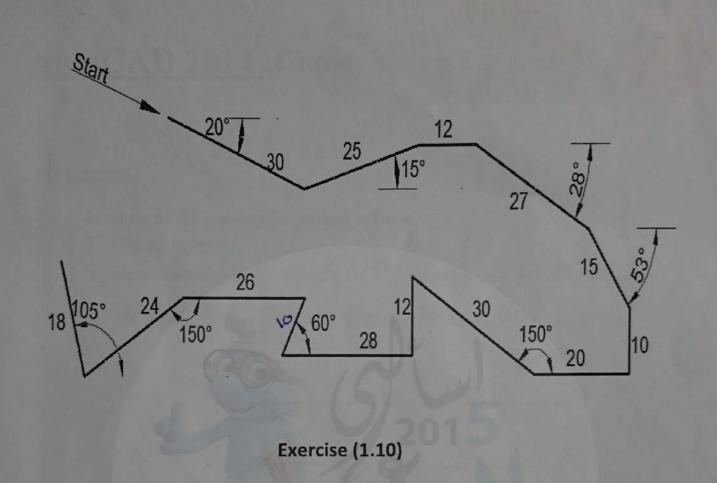


Exercise (1.7)











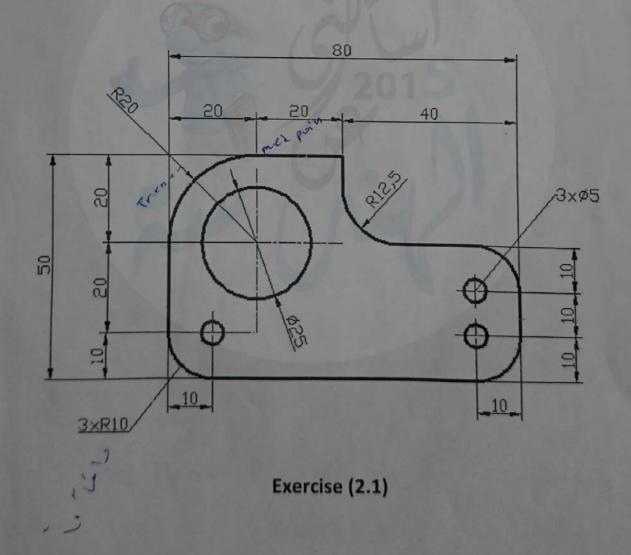


AutoCAD 2014: Construction Lines Method

To Learn:

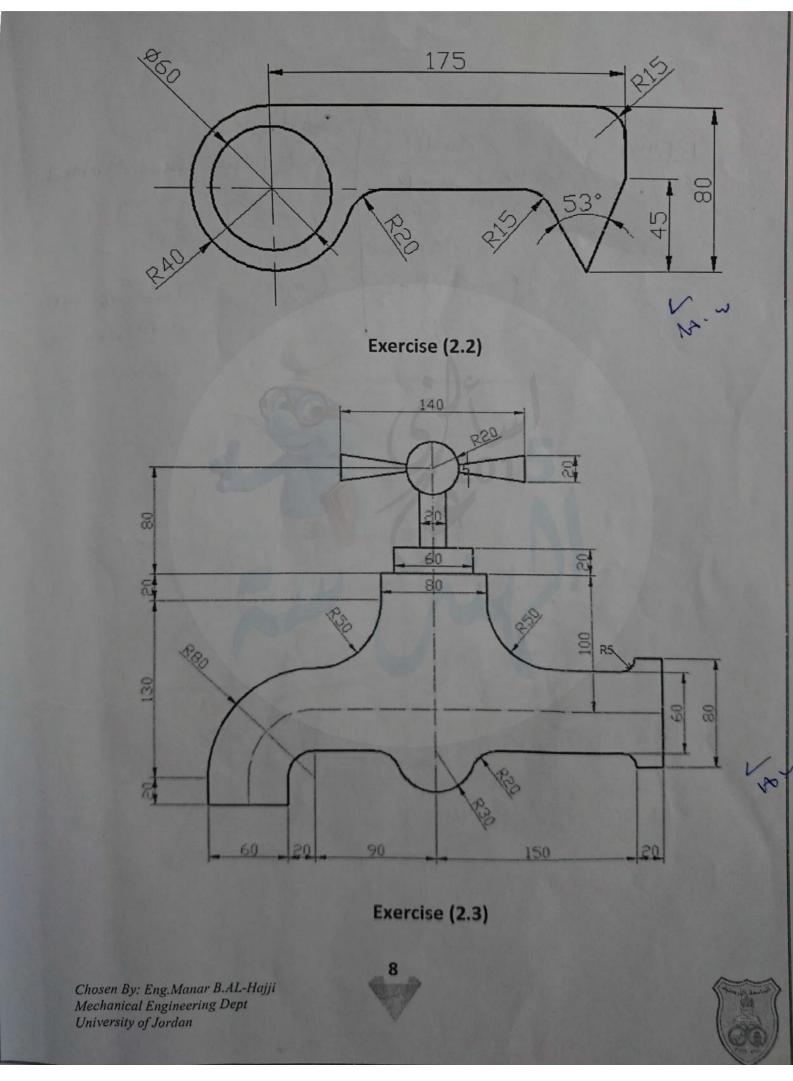
- 1. How to draw using Construction lines.
- 2. Define layers.
- 3. New Commands for AutoCAD (boject Snap, Arc F, + Trim,

Offset, Move, Copy, Rotate, Mirror, Extend Extend, Grips.

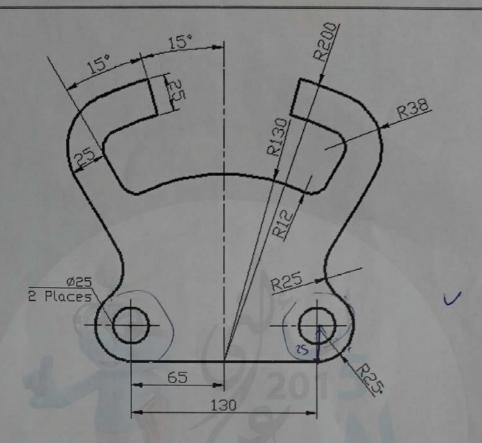




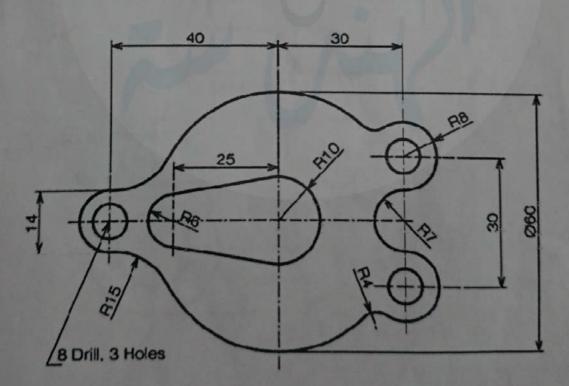




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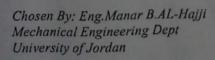


Exercise (2.4)

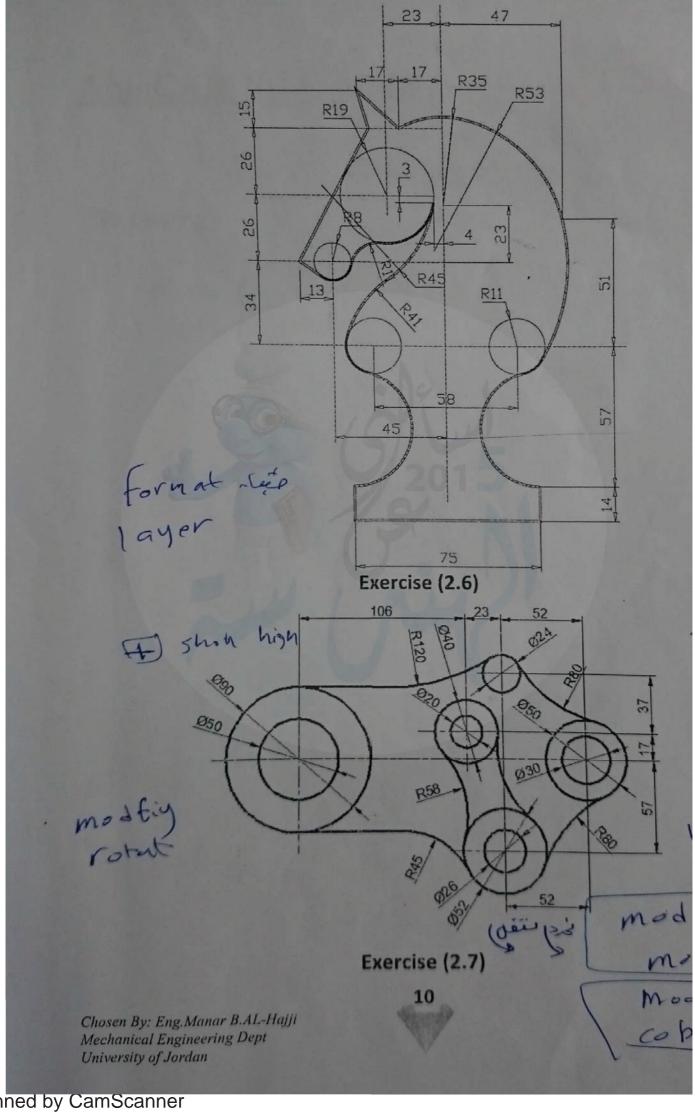


Exercise (2.5)









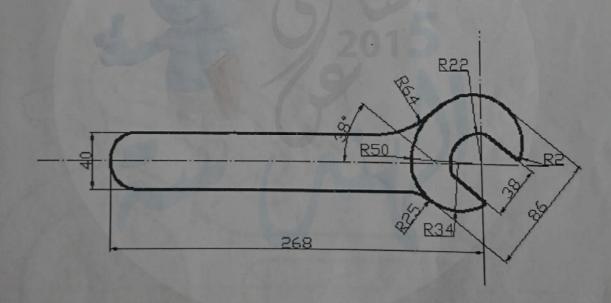
AutoCAD 2014: Modifying Drawings

&

Drawing Polygons

To Learn:

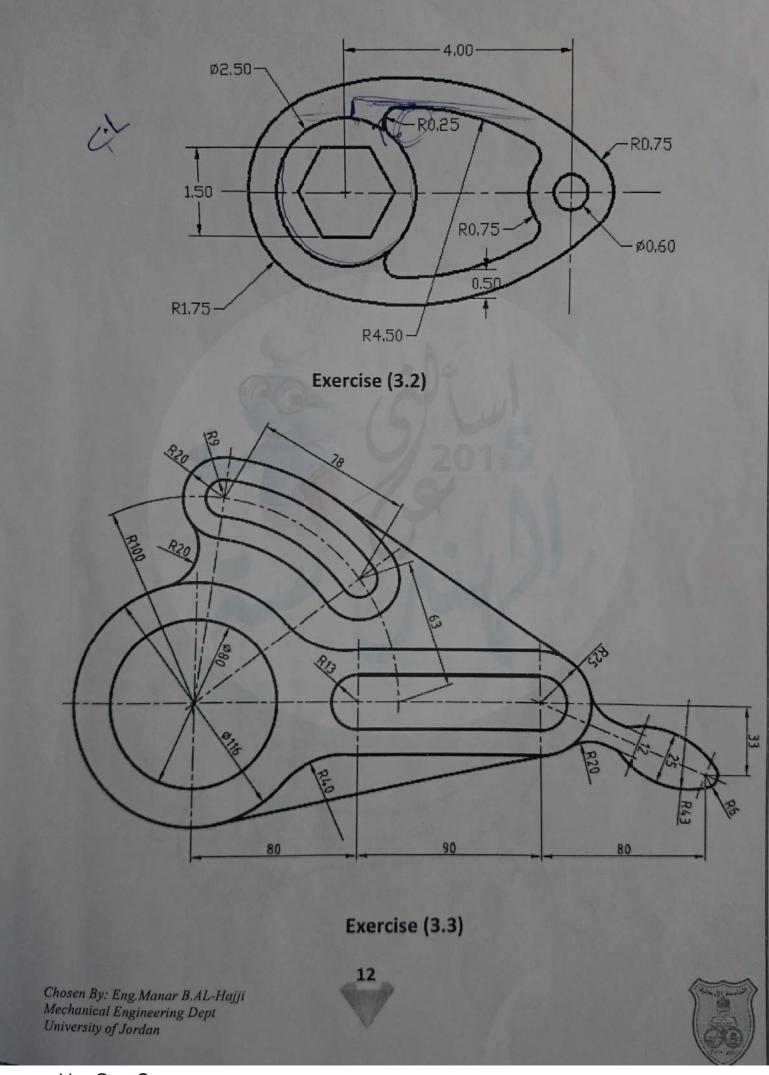
1. New modification Commands in AutoCAD (Properties , Match Properties , Chamfer , Fillet , Hoin , Divide , Rectangle , Polygon Explode

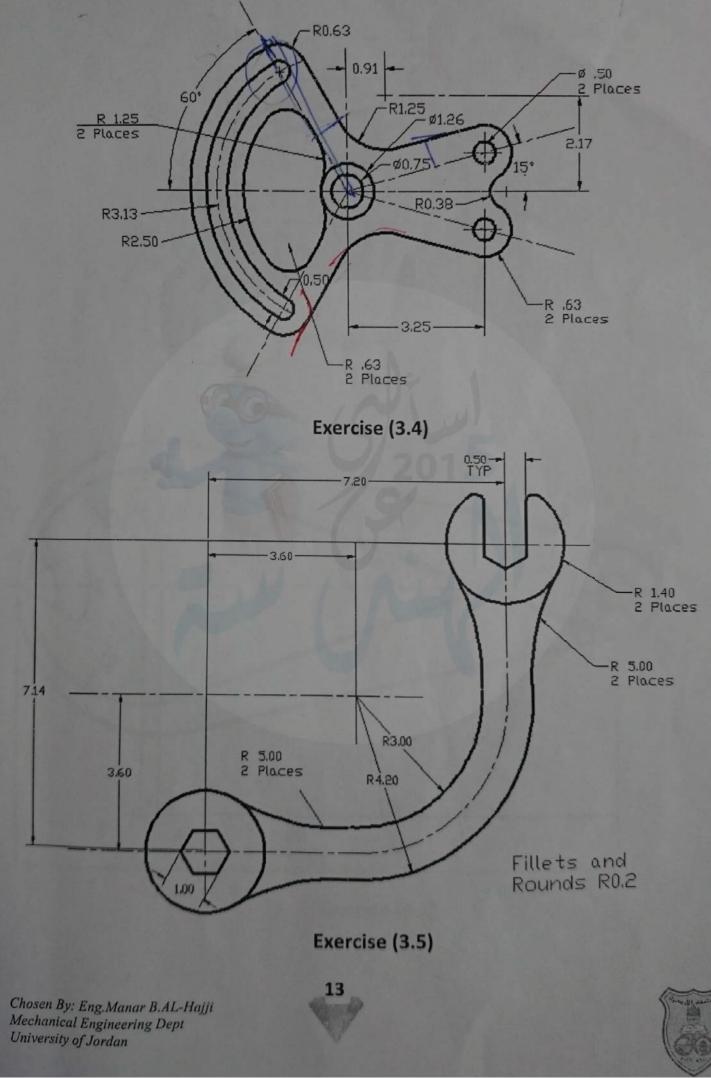


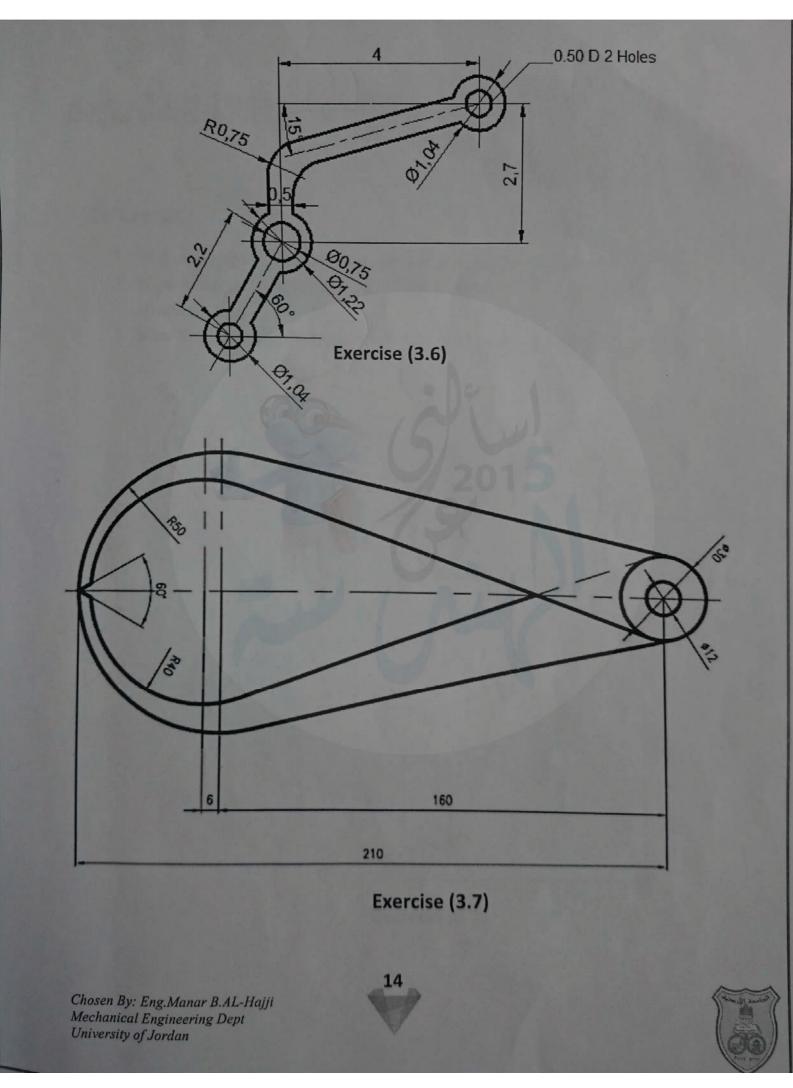
Exercise (3.1)







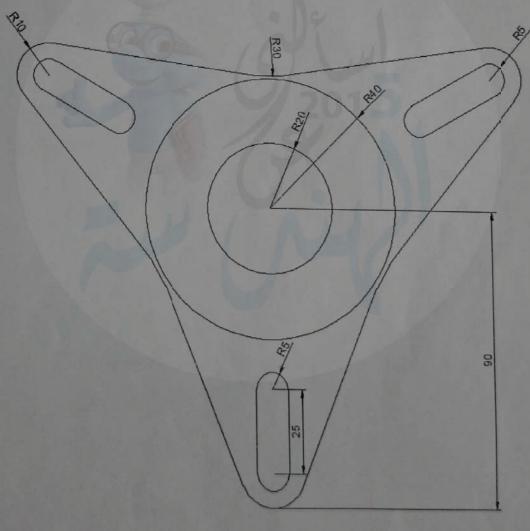




AutoCAD 2014: Creating Arrays and Hatch

To Learn:

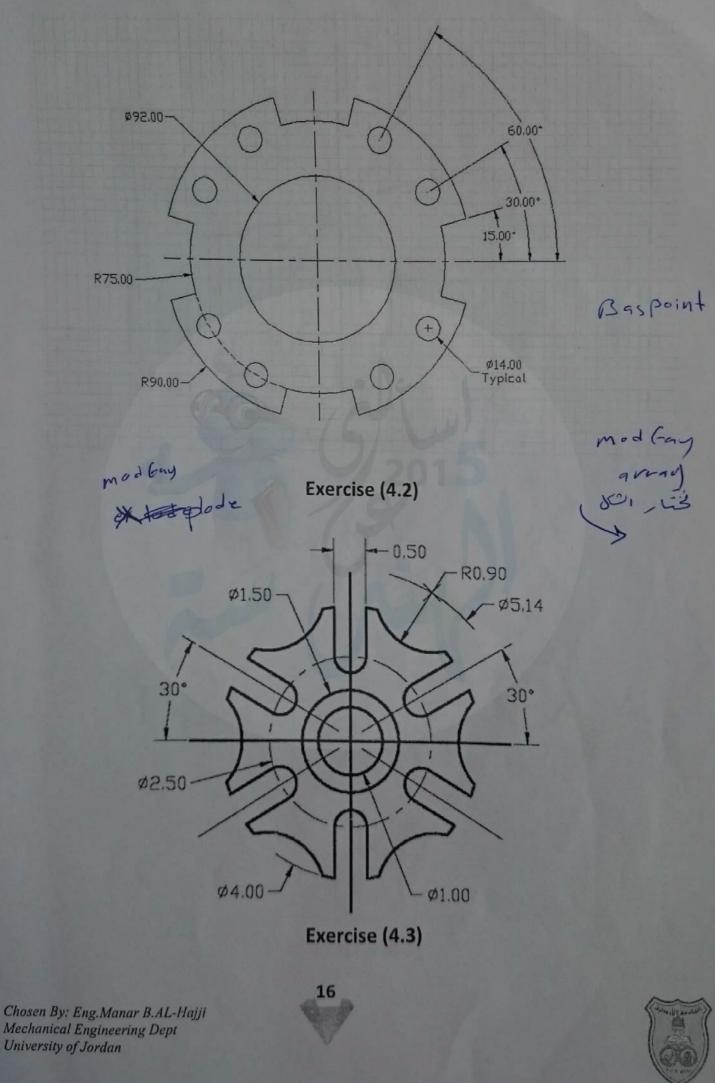
- 1. How to repeat an object in a certain pattern using Array Command
- 2. How to divide an object using Divide Command or Measure Command .
- 3. New Command in AutoCAD (□ Boundary..., Region, □ Hatch...).

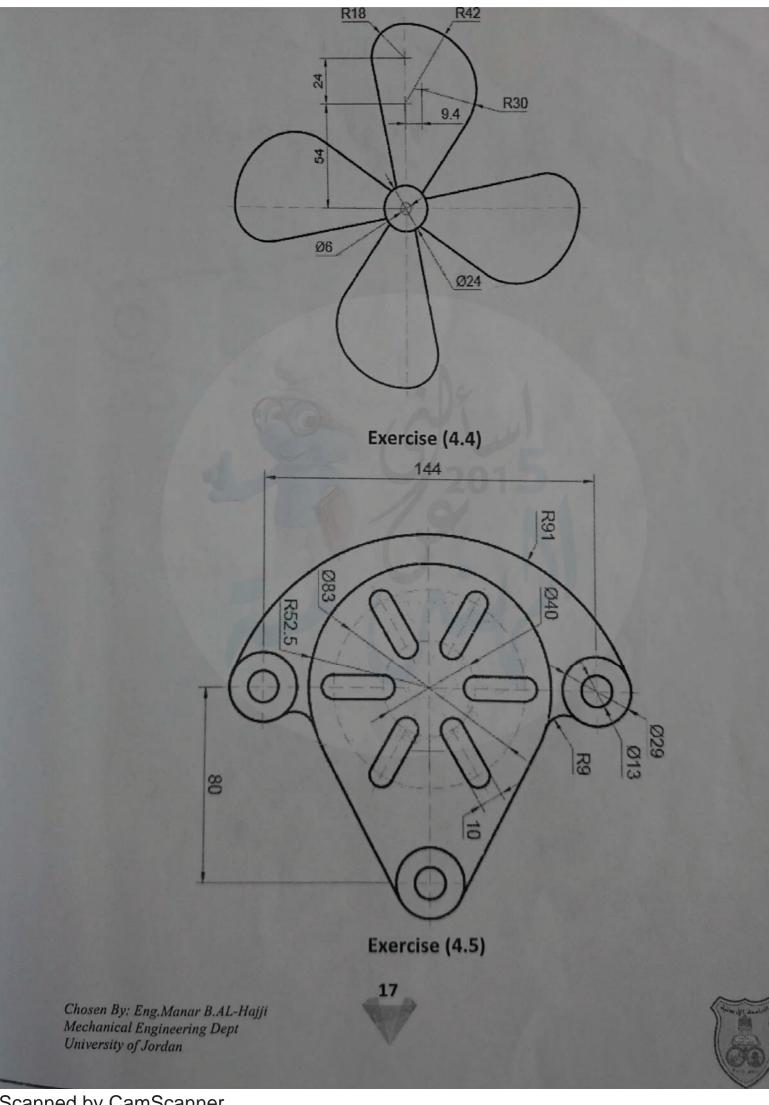


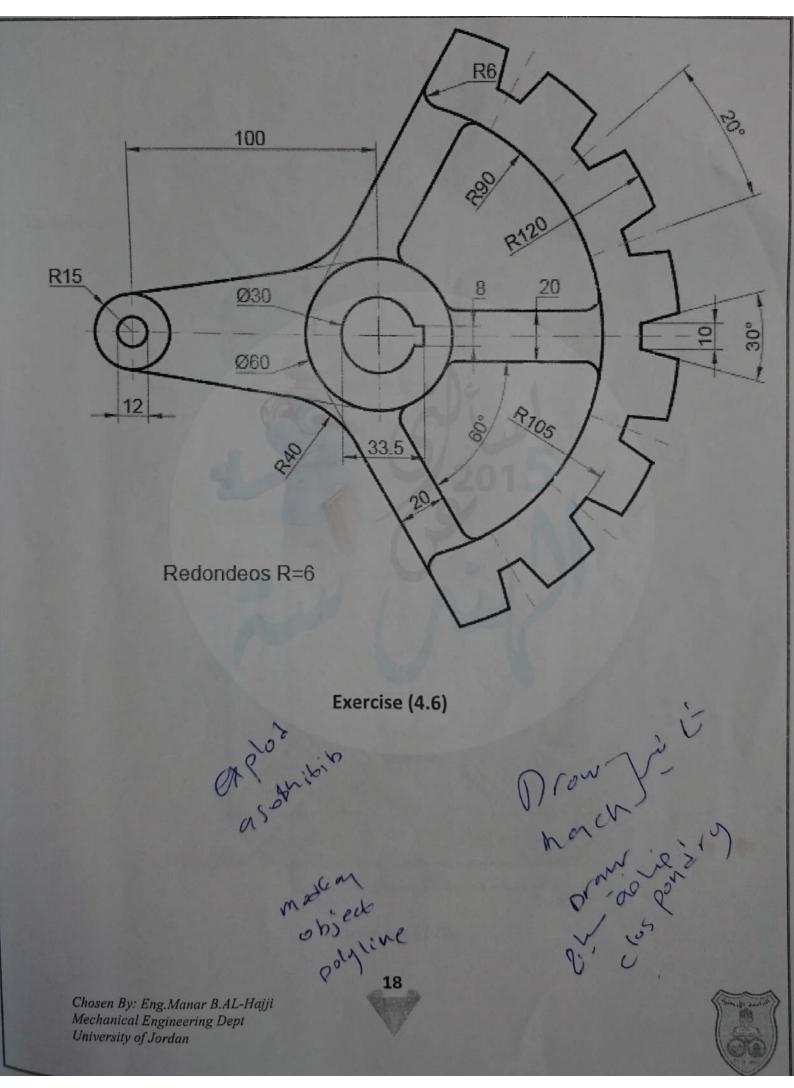
Exercise (4.1)



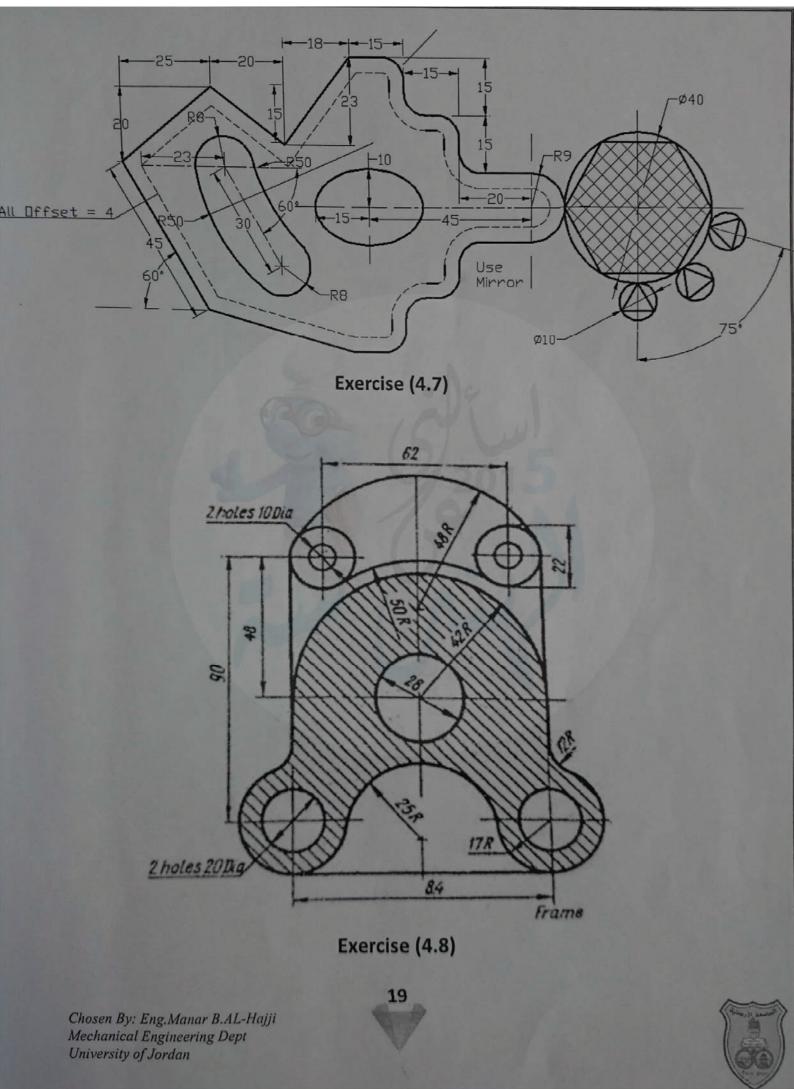


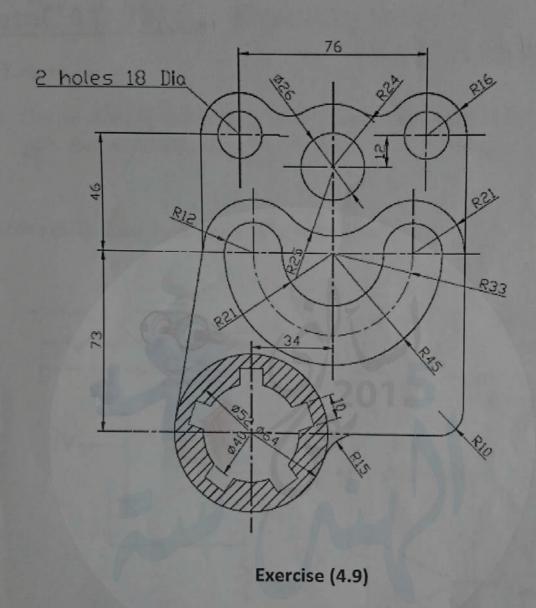






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AutoCAD 2014

Drawing Diagrams

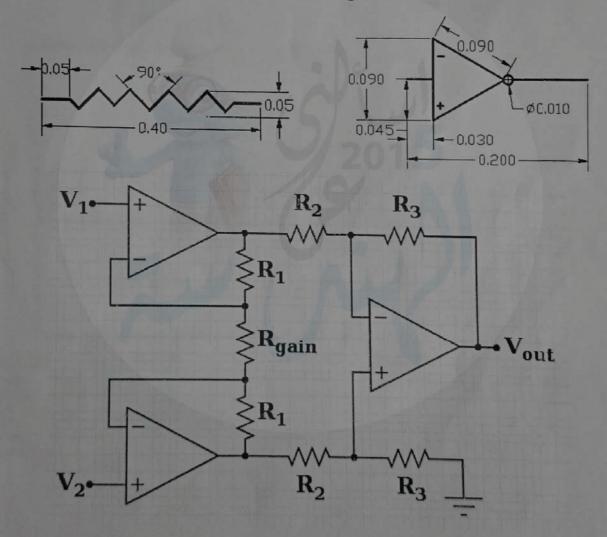


To Learn:

1. How to create Diagrams using the following Commands (Create Block Attribute Manager, Polyline.)



Exercise (5.1): Draw the following Circuit Diagram.







Exercise (5.2): Draw the following house plan

SUGGESTIONS Draw the flat as given. 1.SNAP ON set to 10. 2.COPY,ROTATE windows. 3.COPY,ROTATE doors. "BATCHELOR'S PAD" K/CHEN STUDY LOUNGE HALL TOILET BEDROOM DOORS WALLS MNDOWS ROOM SIZES 20x3 LOUNGE, BEDROOM OUTSIDE PLINE John 80×90 LOUNGE BEDROOM 10x10 INSIDE INSIDE PLINE 2mm 30x3 KITCHEN, STUDY, TOILET 130×50 70×60 TOILET 40x3 LOUNGE 70×50 50×60 STUDY KITCHEN 20x20 OUTSIDE OVERALL FLAT SIZE IS 200x150





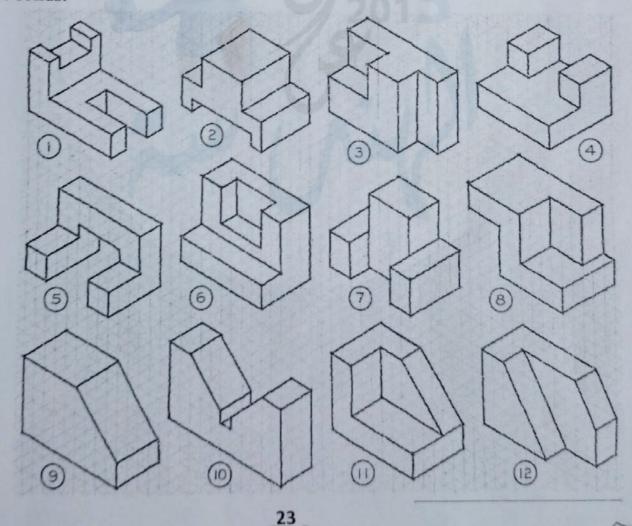
AutoCAD 2014

Projection Theory: Orthographic Projection

To Learn:

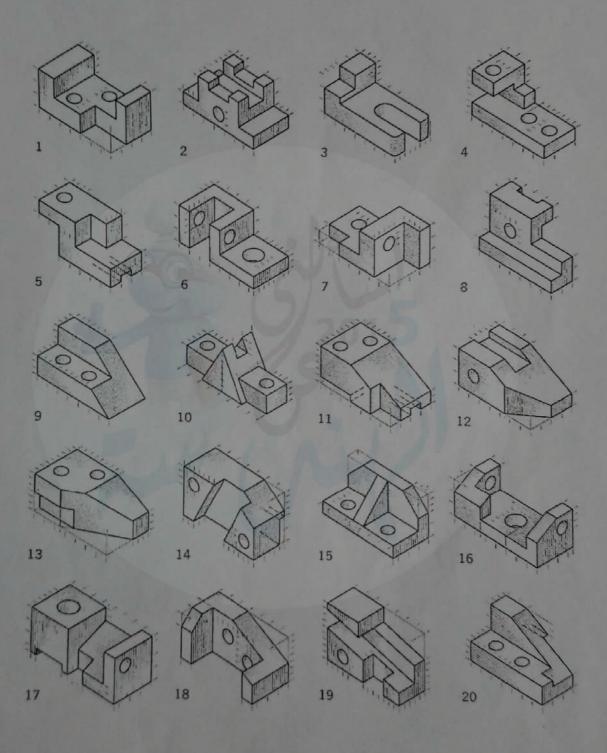
- 1. What are the projection elements?.
- 2. How to find the views using Orthographic projection method.

Exercise (6.1): Sketch using freehand, the orthographic projections for all the solids.





Exercise (6.2): Sketch using freehand, the orthographic projections for all the solids.



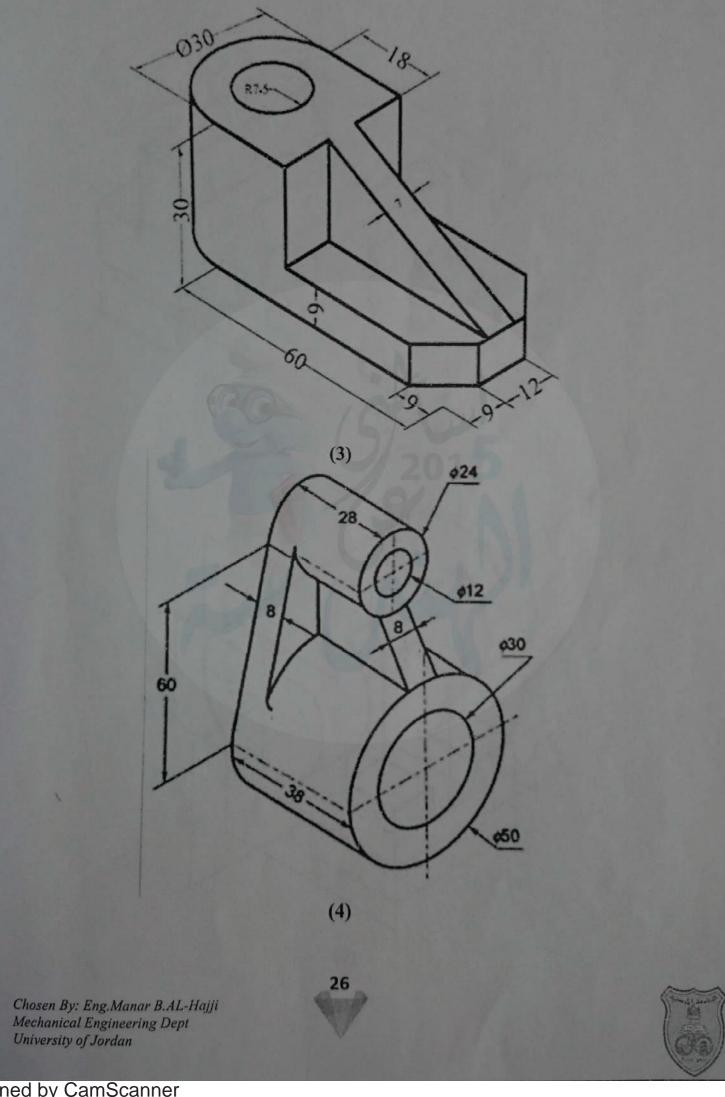


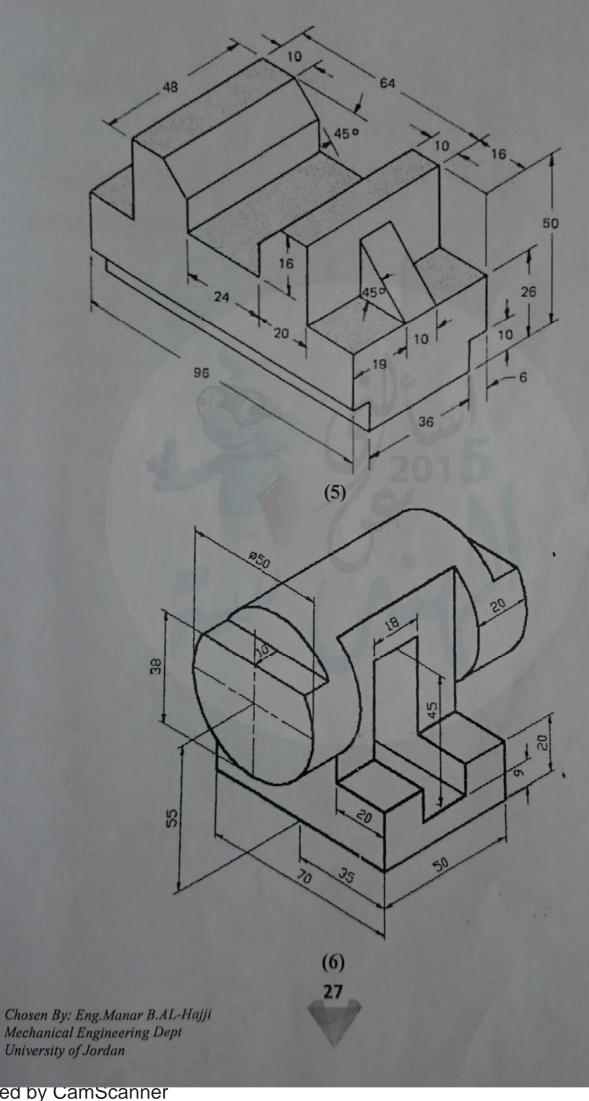


Exercise (6.3): Using AutoCAD, Draw the orthographic projections for all

the solids. (1) R15.> (2) 25 Chosen By: Eng.Manar B.AL-Hajji







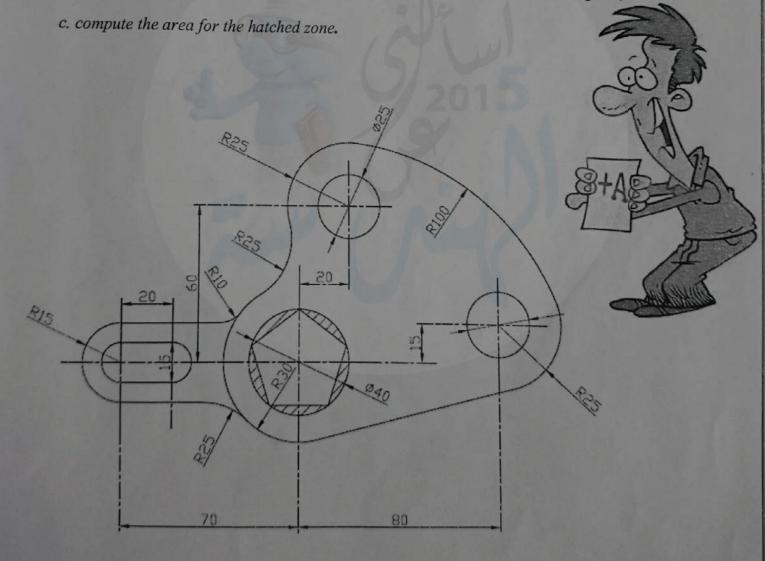


Revision Problems: Mid Exam

Form 1: Draw the following view which is shown in the figure below Note the following:

a. Use one layer for each of the following (Main drawing, Centre line, Hatch line, Dimension line and Text).

b. Write your Name, Reg.No, Department (Font Name: Times new Roman, Regular).

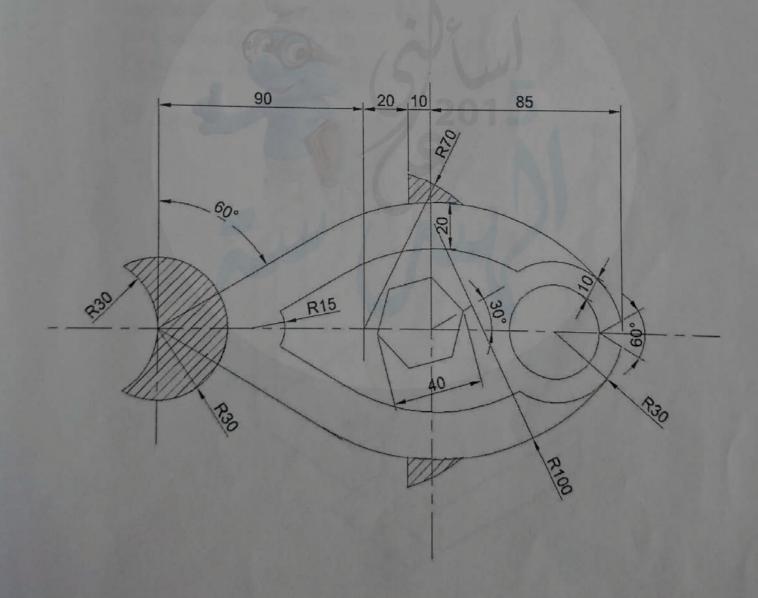






<u>Form2:</u> Draw the following view which is shown in the figure below <u>Note the following:</u>

- a. Use one layer for each of the following (Main drawing, Centre line, Hatch line, Dimension line and Text).
- b. Write your Name, Reg.No, Department (Font Name: Times new Roman, Regular).
- c. compute the area for the hatched zone.







AutoCAD 2014

3D Solids and Sections

Introducing:

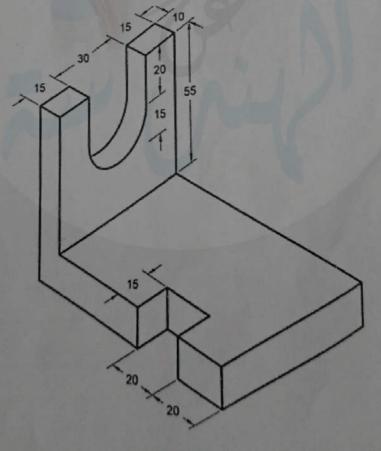
- 1. 3D Concepts.
- 2. Introducing the 3D Workspace.

Learning:

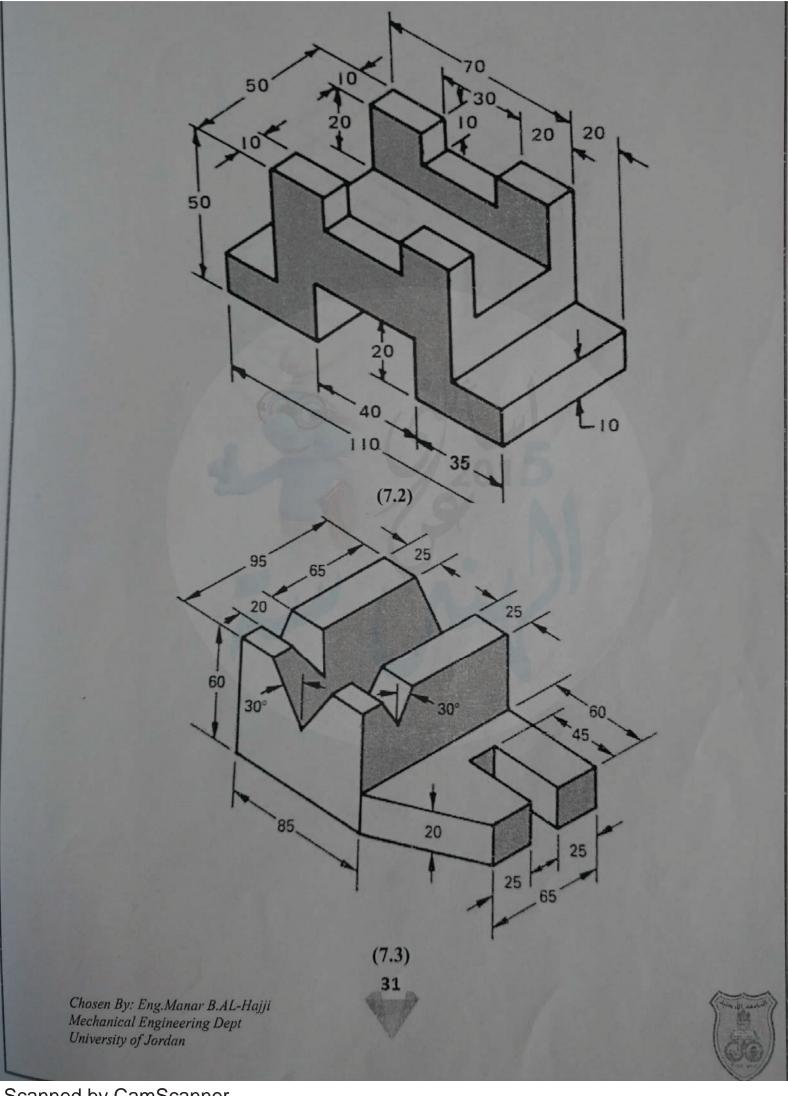
1. How to draw a real-world object in a more natural way by adding depth to the height and width (3D solids).

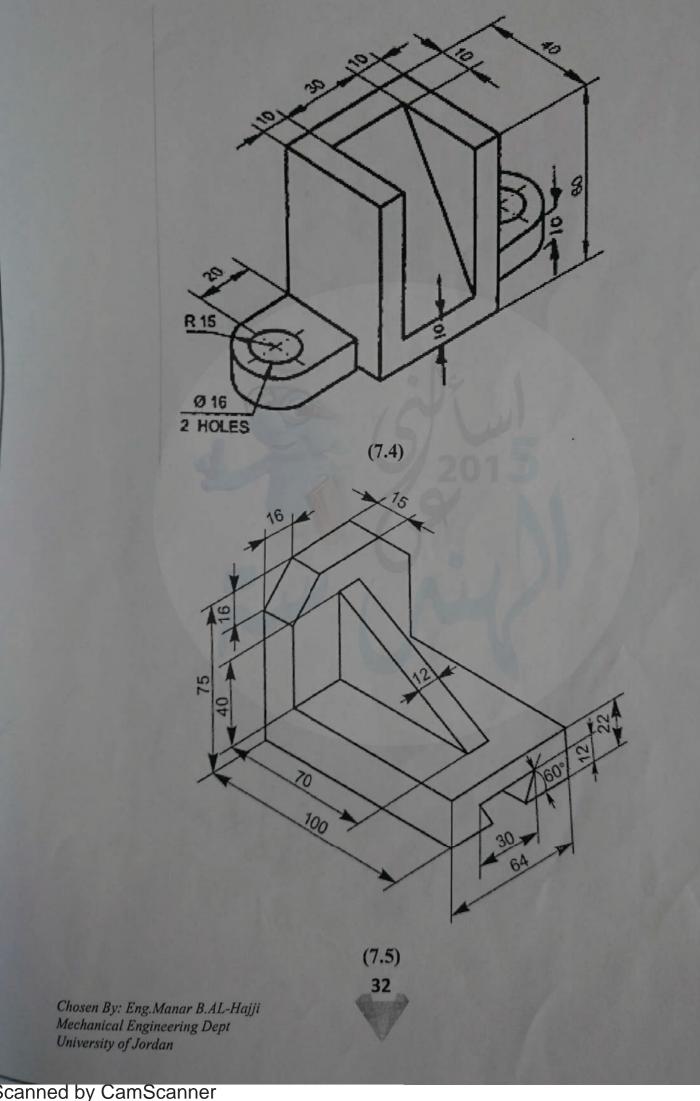
2. 3D Commands in AutoCAD(@ Orbit, pegion /Boundary, pude Revolve, Presspull, @ 3D Move @ 3D Rotate & 3D Align

2 3D Object Snap, Subtract, Union, % 3D Mirror, Slice.

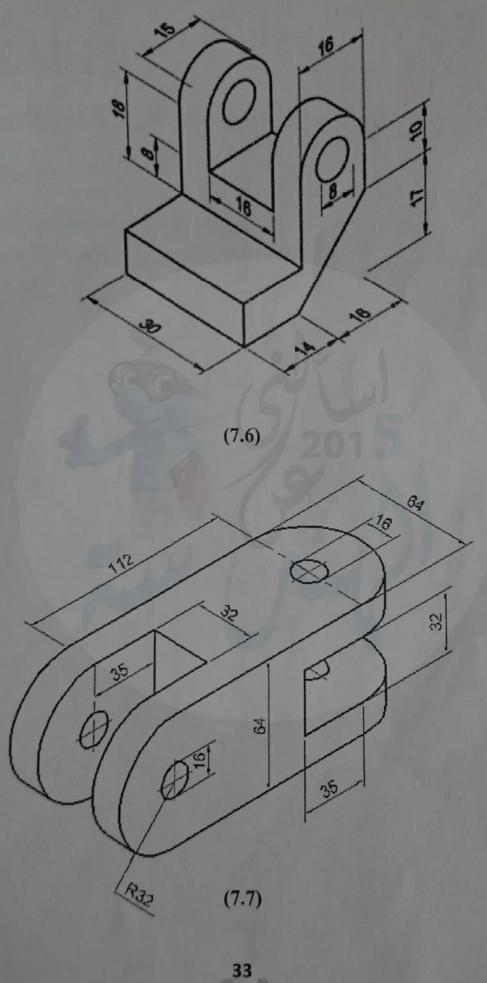


(7.1)











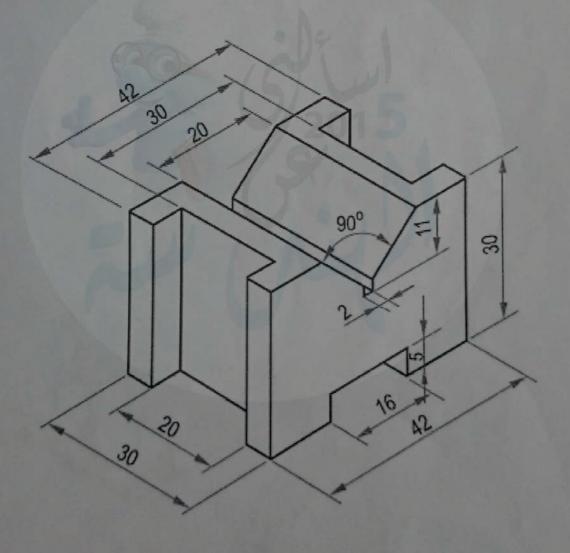


AutoCAD 2014

3D Solids: UCS Method

To Learn:

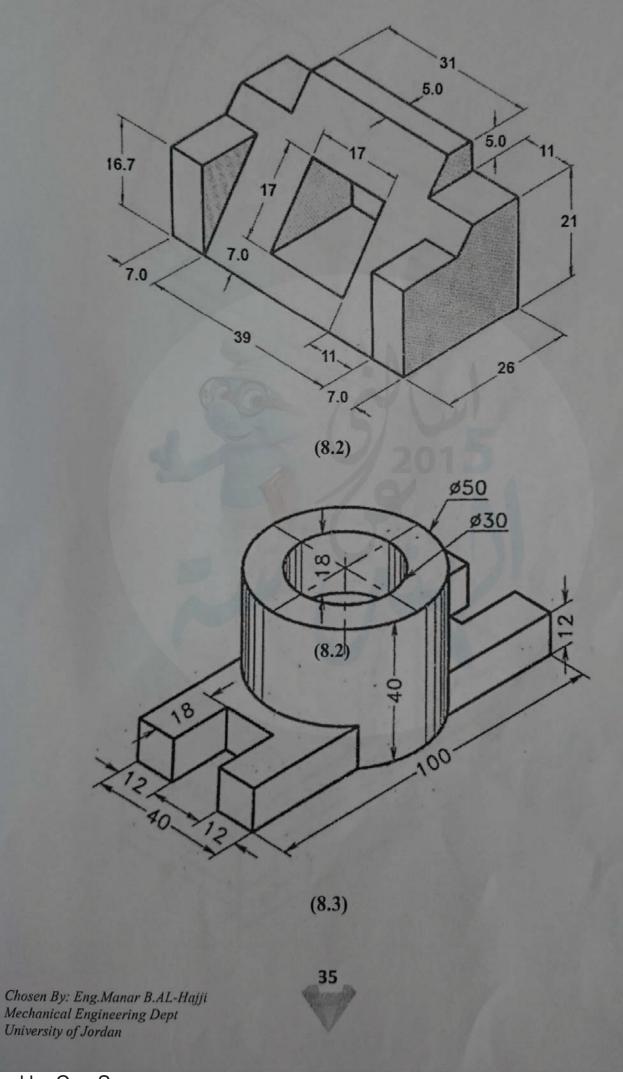
- 1. How to draw using UCS Method.
- 2. New 3D Commands in AutoCAD(LUCS, Dynamic UCS,
 - Fillet / Chamfer.

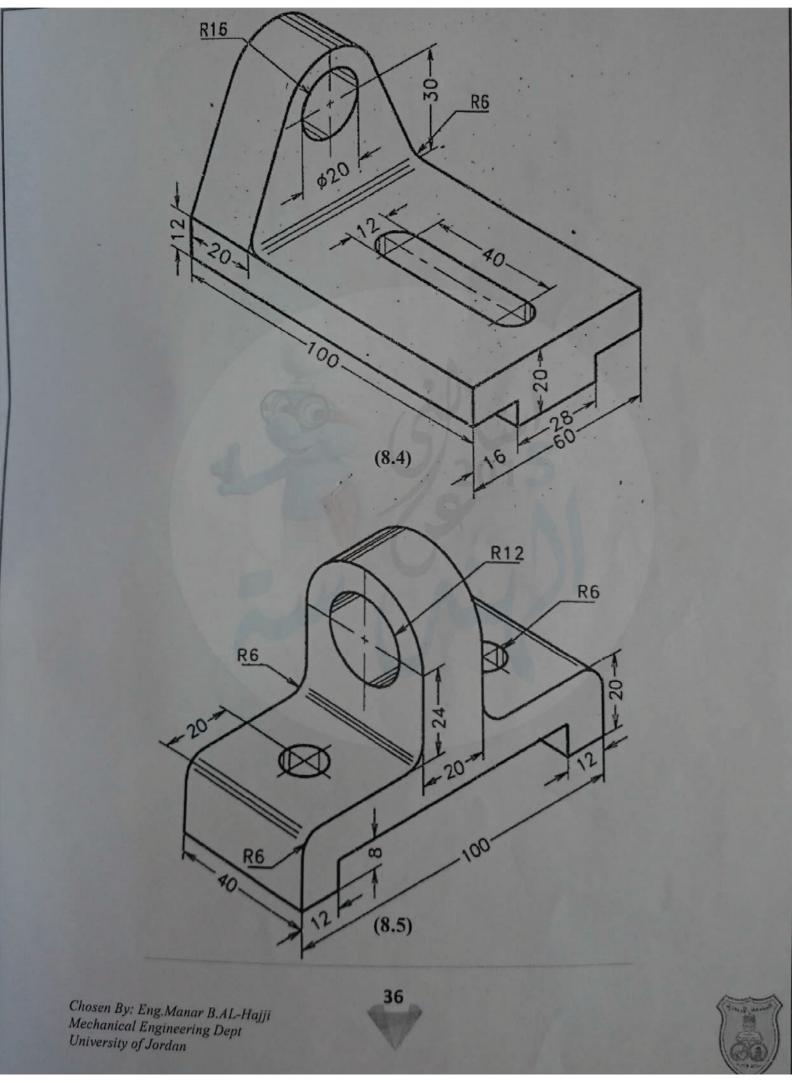


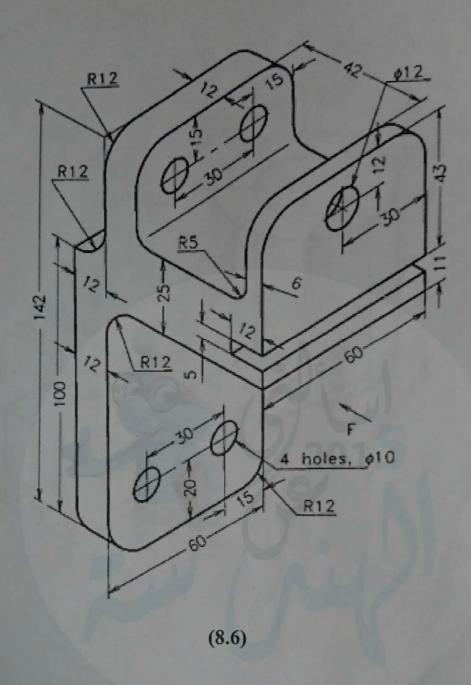
(8.1)

34



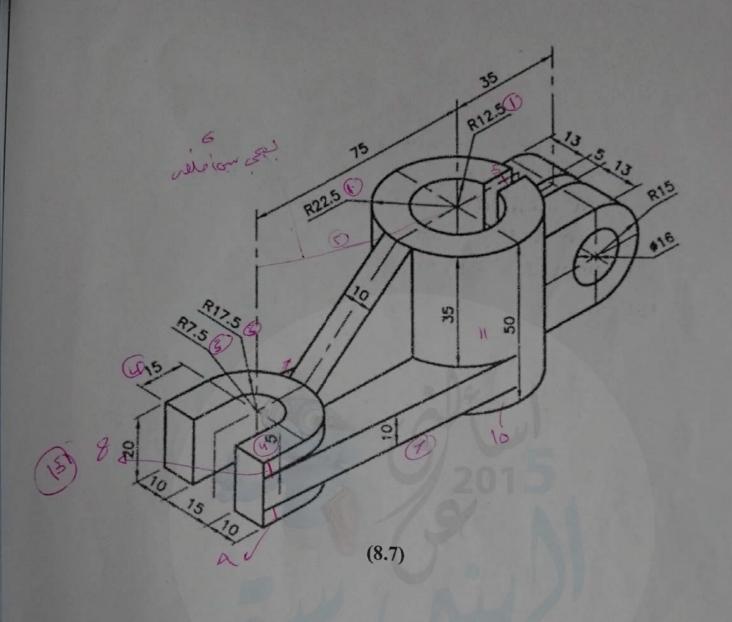






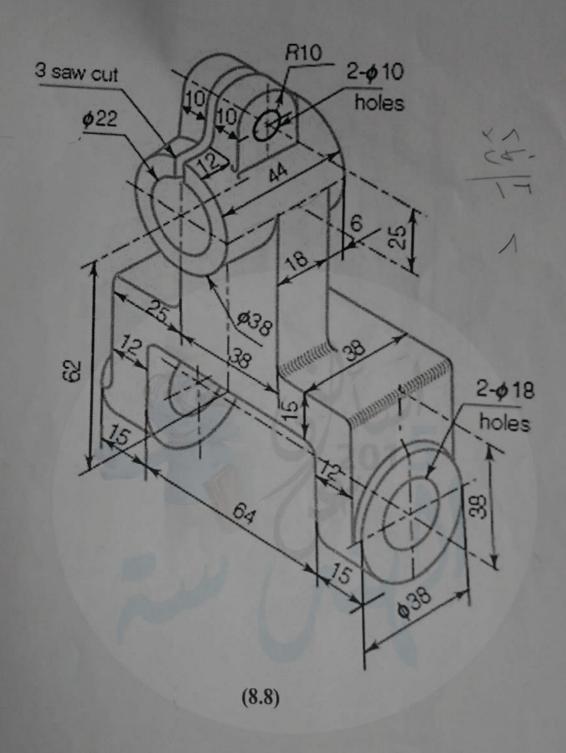






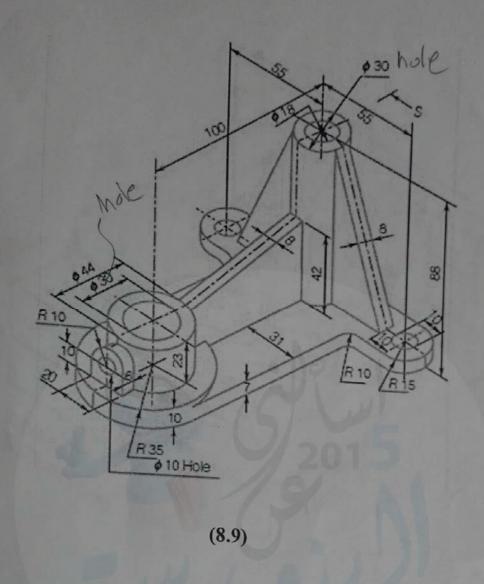






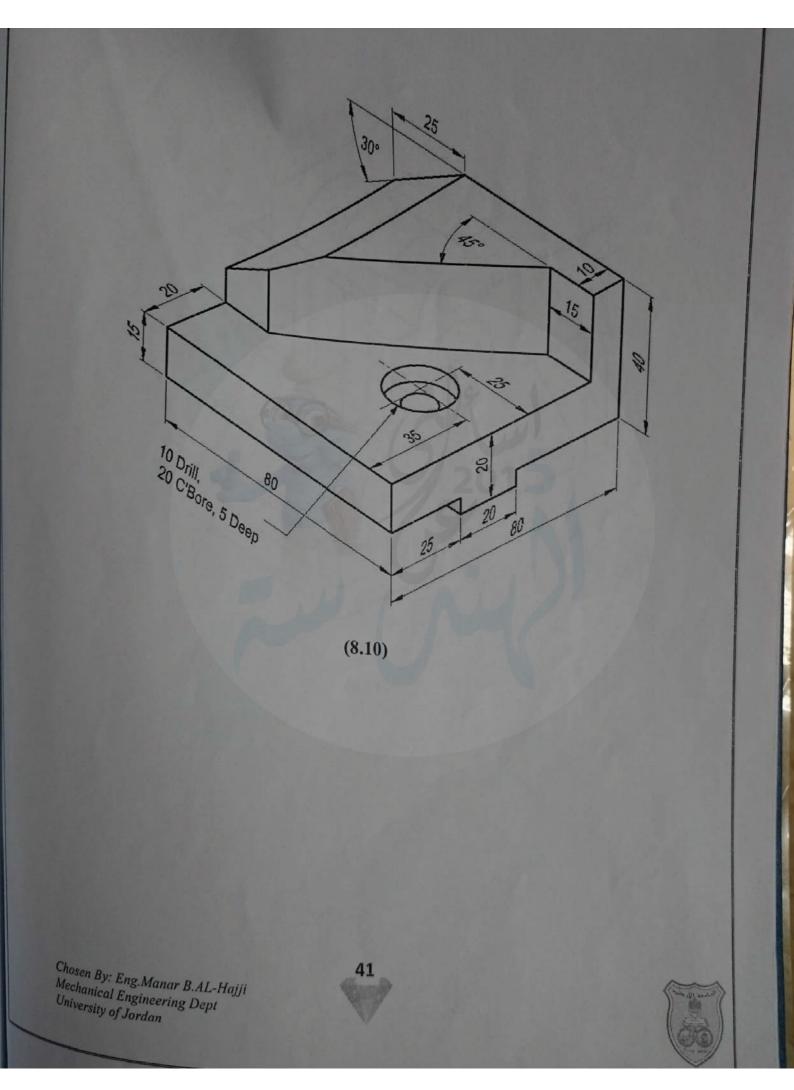




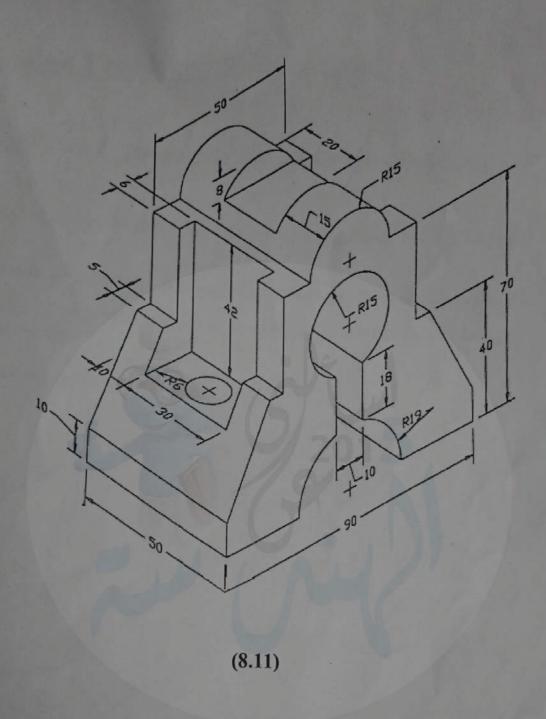








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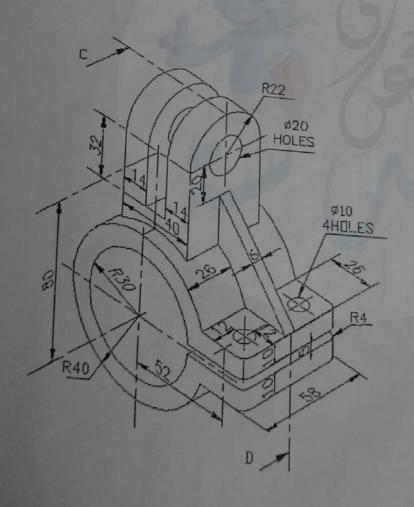


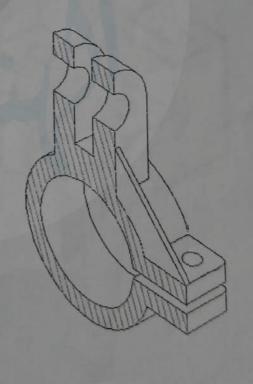


Revision Problems: Final Exam

Form 1: Draw the following 3D solid which is shown in the figure below

- a .Use one layer for each of the following :(3D solid, Hatch line, Text and Dimension
- b. Write your Name, Reg.No, and Department (Font Name: Times new Roman, Regular c. Make a slice (on a copy of the figure) along the cutting line CD, keep the back and
- d. Add all dimensions as shown in the figure.









Form 2: Draw the following 3D solid which is shown in the figure below

- a. Use one layer for each of the following: (3D solid, Hatch line, Text and Dimension line).
- b. Write your Name, Reg.No, Department (Font Name: Times new Roman, Regular
- c. Make a slice (on a copy of the figure) along the cutting line RS, keep the back and hatch the section.
- d. Add all dimensions as shown in the figure .

