## Mohamed Khider University, Biskra. Faculty of Science and Technology Department of Architecture

Subject: Computer-Aided Design	Level : 2 <sup>nd</sup> year architecture		
Date: 12/02/2025	Time: 8h30 – 10h00		
Name :	Group :		
<b>T</b>			
Exam			
4 N. d. 1966			
1. Name the different types of coordinates used for			
•			
•			
•			
•			
2. In AutoCAD, some keyboard keys are used s	specifically. What are the functions of the		
following keys (3pts):			
• F8:			
• F9:			
• F3:			
<b>3.</b> What are the characteristics that define elements	in the same layer? (1.5pts)		
4. Give the steps (commands and data) to create th	e following drawing (/4pts):		
•			
•			
•	3.3		
•			
••••••			
E Cive the name and function of the commands of	arrachanding to the following icons (/2n):		
<b>5.</b> Give the name and function of the commands co	rresponding to the following icons (/5p):		

6. Choose the correct statement (1.5pts):							
• Which of the following commands is used to <b>remove</b> part of an object?							
CHAM	IFER 🗌	TRIM		OFFSET	EXTEND [		
• What is the purpose of the <b>POLYLINE</b> command?							
$\Box$ To create a connected series of line and arc segments as a single object							
☐ To create circles and ellipses							
☐ To draw multiple separate line segments							
• Which of the following is the primary purpose of using the "Layer" function?							
$\square$ To print the drawing			$\square$ To draw 3D objects				
$\square$ To resize objects			$\square$ To manage and organize drawing objects				
7. Fill in the table below by specifying the command required to create drawing in column (2)							
based on the drawing in column (1).(/3pts)							
1	2		1	2	1	2	
4 - 6	4 6	3					

M<sup>me</sup> MAGRI-DJENANE Sahar

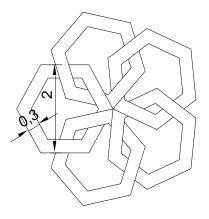
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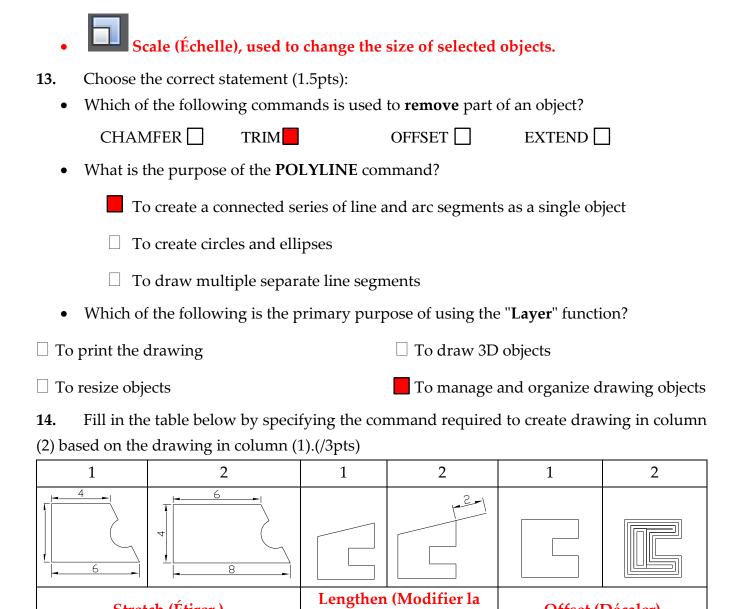
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## Model answer

- 8. Name the different types of coordinates used for 2D drawing and their format. (/4pts)
  - Absolute Cartesian coordinates. x,y
  - Relative Cartesian coordinates. @ x,y
  - Absolute polar coordinates. Distance<Angle
  - Relative polar coordinates. @Distance<Angle
- **9.** In AutoCAD, some keyboard keys are used specifically. What are the functions of the following keys (3pts):
  - F8: Toggles Ortho Mode on or off.
  - F9: Toggles Snap Mode on or off.
  - F3: Turns Object Snap (OSNAP) on or off.
- 10. What are the characteristics that define elements in the same layer? (1.5pts) Color, Line Type and Line Weight
- 11. Give the steps (commands and data) to create the following drawing (/4pts):
  - Polygon/ Number of Sides:06/Center/Circumscribed about Circle/Radius: 1.
  - Offset (Décaler) / distance :0.3
  - Polar Array/Number of items:05/ Angle:360
  - Trim.



- **12.** Give the name and function of the commands corresponding to the following icons (/3p):
  - Fillet (Raccord), used to create a rounded corner (arc) between two objects.
  - Offset (Décaler), creates a parallel copy of selected objects at a specified distance.



longueur)

Stretch (Étirer)

Offset (Décaler)