



Modification commands:

Erase command: It is one of the simple commands and is used to erase drawn shapes. It can be activated from this icon or by typing **Erase** in the command bar. After that, you select the element or elements to be erased and then press Enter.

Move command
It is used to move the drawn shapes and transfer them from one place to another within the drawing
It can be activated by clicking on the icon or by typing the command from the keyboard and then pressing Enter

Copy command
It is used to copy the drawn shapes and move them from one place to another within the drawing
It can be activated by clicking on the icon or by typing the command on the keyboard and then pressing Enter

Rotate command
It is used to rotate the drawn shapes at a specific angle and as desired
It can be activated by typing Rotate in the command bar
After that, specify the element or elements to be rotated and then specify the point around which the rotation will be carried out and then the rotation angle, then press Enter





Al-Mustaqbal University
Department (Communications Engineering)
Class (1ST class)
Subject (Engineering drawing) / Code (UOMU028014)
Lecturer (Doaa Hazim Aziz)
1st/2nd term – Lect. (Modification commands)

Trim command:
Used to remove extra lines
It can be activated by clicking on the icon or by typing the command on the keyboard

Extension command
Used to complete lines and extend them to fill the spaces between shapes
It can be activated by clicking on the icon or by typing the command on the keyboard

You can switch between the two commands while drawing directly by clicking on **shift**

EXTEND
Press F1 for more help

TRIM Select objects or <select all>:



Email (Doaa.Hazim.Aziz@uomus.edu.iq)



Al-Mustaqbal University
Department (Communications Engineering)
Class (1ST class)
Subject (Engineering drawing) / Code (UOMU028014)
Lecturer (Doaa Hazim Aziz)
1st/2nd term – Lect. (Modification commands)

Fillet Command
This command is used to round the corners and make them round instead of sharp
It can be activated by clicking on the command or by typing the command on the keyboard
Then you specify the corner that you want to round by specifying the two enclosing sides and then pressing Enter

Chamfer Command
This command rines the corners and makes them beveled instead of sharp
It can be activated by pressing the command or by typing the command on the keyboard
Then you specify the corner that you want to rinse by specifying the two enclosing edges and then pressing Enter
The amount of rinse must be defined by specifying the distances from the corner or the rinse angles through the command bar





Al-Mustaqbal University
Department (Communications Engineering)
Class (1ST class)
Subject (Engineering drawing) / Code (UOMU028014)
Lecturer (Doaa Hazim Aziz)
1st/2nd term – Lect. (Modification commands)

Mirror command

Makes an exact copy of the target shape, as a mirror does

It differs from the copy command because it copies and pastes without reversing right and left

This command can work on all axes (horizontal, vertical and diagonal) and the copied parts are symmetrical with their origins

The screenshot shows the AutoCAD interface with the Mirror command help window open. The help window contains the following text: "Mirror: Creates a mirrored copy of selected objects. You can create objects that represent half of a drawing, select them, and mirror them across a specified line to create the other half." Below the text is a diagram of a red shape being mirrored across a horizontal dashed line. The command line at the bottom shows "Type a command".





Al-Mustaqbal University
Department (Communications Engineering)
Class (1ST class)
Subject (Engineering drawing) / Code (UOMU028014)
Lecturer (Doaa Hazim Aziz)
1st/2nd term – Lect. (Modification commands)

Scale command

This command changes the size of the drawn shape either by enlarging it if you chose a scale greater than one or by reducing it if you chose a scale smaller than one

Scale
Enlarges or reduces selected objects, keeping the proportions of the object the same after scaling

To scale an object, specify a base point and a scale factor. The base point acts as the center of the scaling operation and remains stationary. A scale factor greater than 1 enlarges the object. A scale factor between 0 and 1 shrinks the object.

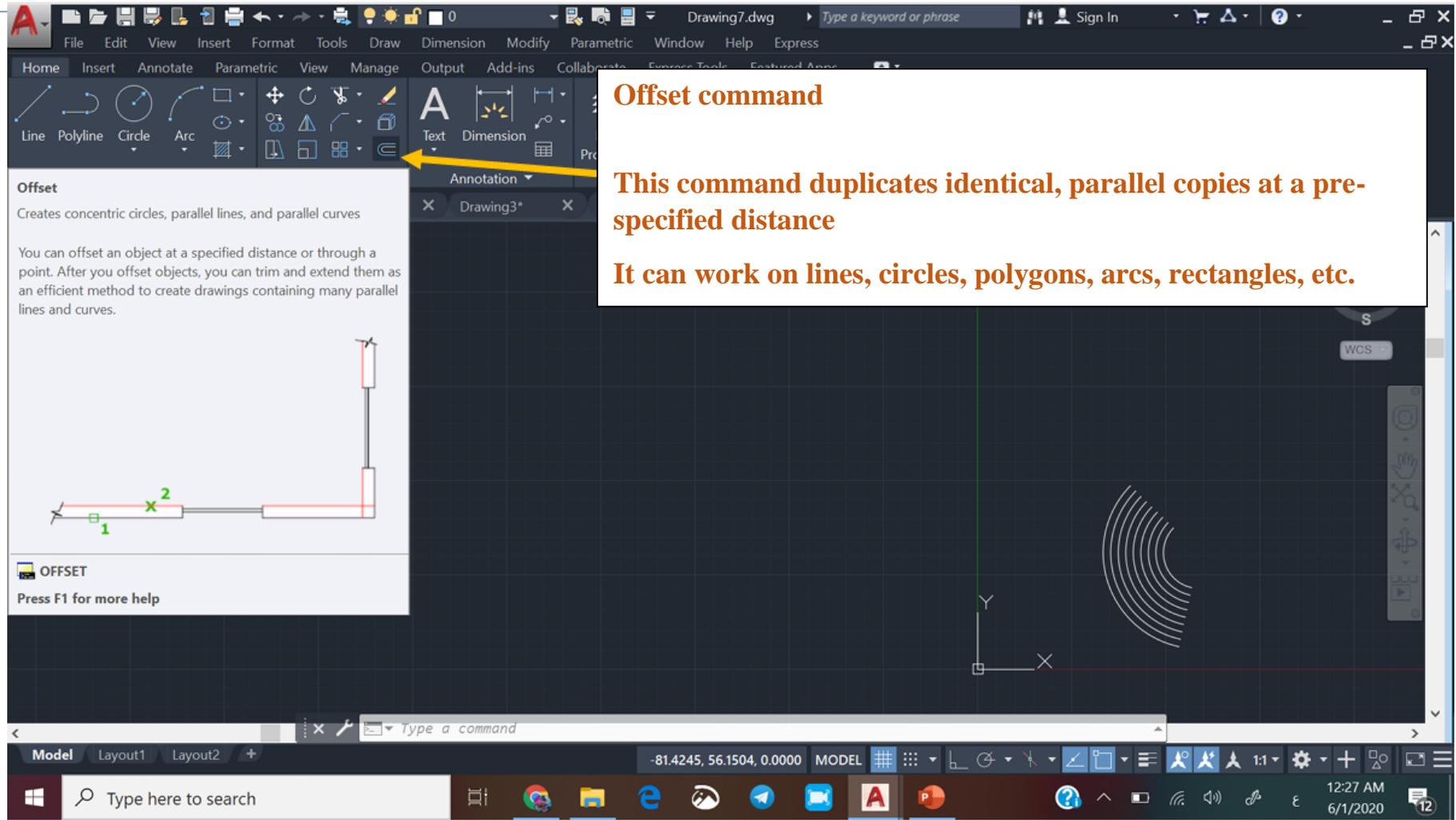
SCALE
Press F1 for more help

The screenshot shows the AutoCAD interface with the Scale command help window open. The help window contains text explaining the command and a diagram of a mechanical part with a scale factor of 1.50. The 3D model in the background shows a red dashed outline of the part, indicating it is being scaled. The command line at the bottom shows 'Type a command'.





Al-Mustaqbal University
Department (Communications Engineering)
Class (1ST class)
Subject (Engineering drawing) / Code (UOMU028014)
Lecturer (Doaa Hazim Aziz)
1st/2nd term – Lect. (Modification commands)



Offset command
This command duplicates identical, parallel copies at a pre-specified distance
It can work on lines, circles, polygons, arcs, rectangles, etc.

