

### Lab 3

#### Name of Experiment: More Edit Commands

##### 1.1 Objective of this Lab

Objective of this lab is to learn how modify and rotate a 2D object.

##### *Learning Outcomes*

Upon completion of this lab you are expected to be able to-

- Rotate objects to a certain angle.
- Create round corner between two lines.
- Create an angles corner between two lines.

##### 4.2 Topics

Rotate command is used for rotating any object to a certain angle.

Fillet command is used for making round shape corner by specifying a radius for that round shape.

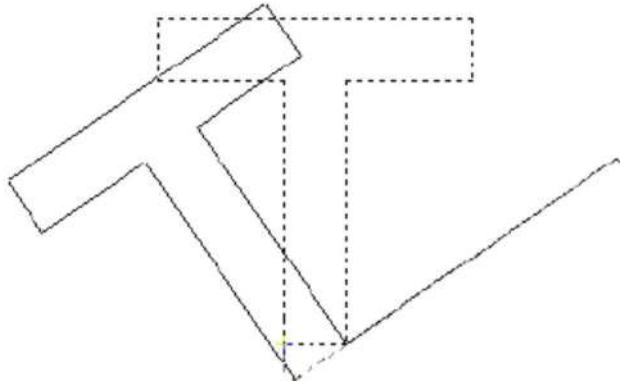


Chamfer is used to make angular corner by specifying two chamfer distances.

Shortcuts for rotate, fillet and chamfer are shown below-

Command	Keystroke
Rotate	Rotate / RO
Fillet	Fillet / F
Chamfer	Chamfer / CHA
Object Snaps	OSNAP / OS / F3

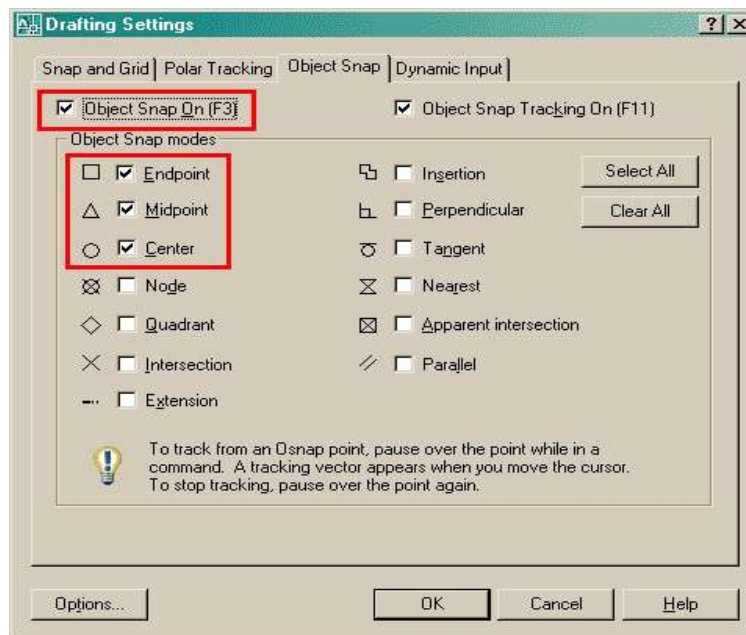
- I. Command: **RO** <ENTER>  
Current positive angle in UCS: ANGDIR=counterclockwise ANGBASE=0  
Select objects: <Select the Rectangle> 1 found  
Select objects: <ENTER>  
Specify base point: <PICK BOTTOM RIGHT CORNER OF THE RECTANGLE>  
Specify rotation angle or [Reference]: -90 <ENTER>
- II. Command: **F** <ENTER> FILLET  
Current settings: Mode = TRIM, Radius = 0.0000  
Select first object or [Undo/Polyline/Radius/Trim/Multiple]:

- III. Command: **CHA** <ENTER> CHAMFER  
(TRIM mode) Current chamfer Dist1 = 0.0000, Dist2 = 0.0000  
Select first line or [Polyline/Distance/Angle/Trim/Method]: **D** <ENTER>  
Specify first chamfer distance <0.5000>: **.375** <ENTER>  
Specify second chamfer distance <0.3750>: <ENTER>  
Select first line or [Undo/Polyline/Distance/Angle/Trim/mEthod/Multiple]:  
<select one side of the rectangle>

Example of Rotate	
Example of Fillet	
Example of Chamfer	

#### IV. Object Snaps (OSNAP)

Type **OS** <ENTER>. You will see this dialog box appear.



**Endpoint** - snaps to either the beginning or the end of an object such as a line - **END**

**Midpoint** - snaps to the exact middle of a line or an arc - **MID**

**Center** - snaps to the center-point of a circle or arc - **CEN**

**Node** - snaps to 'nodes' - **NOD**

**Quadrant** - snaps to any of the four quadrants of a circle - **QUA**

**Intersection** - snaps to the point where two object cross - **INT**

**Extension** - Snaps to the phantom extension of an arc or line - **EXT**

**Insertion** - snaps to the insertion point of an object (such as a block or text) - **INS**

**Perpendicular** - will snap so that the result is perpendicular to line selected - **PER**

**Tangent** - snaps to create a line tangent to a circle or arc - **TAN**

**Nearest** - will find the closest point an object and snap to that point - **NEA**

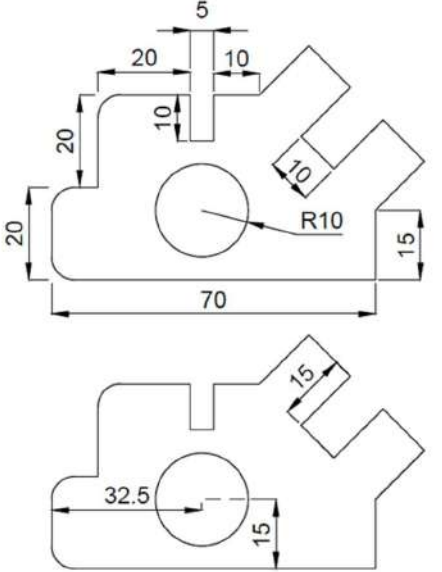
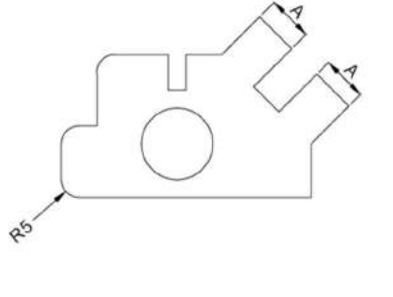
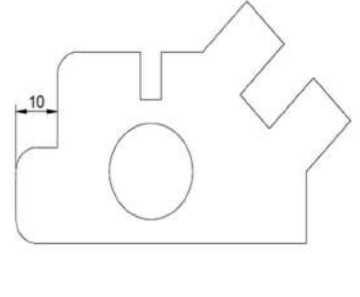
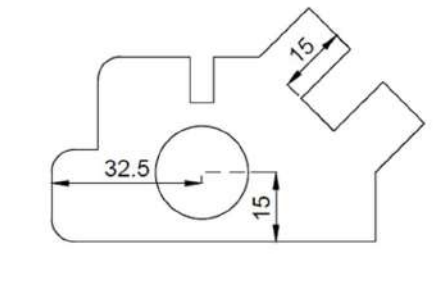
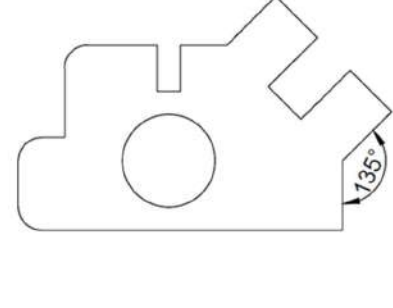
**Parallel** - Snaps parallel to a specified line - **PAR**

**None** - temporarily turns off all Osnaps. (Pressing your F3 Key is quicker) - **NON**

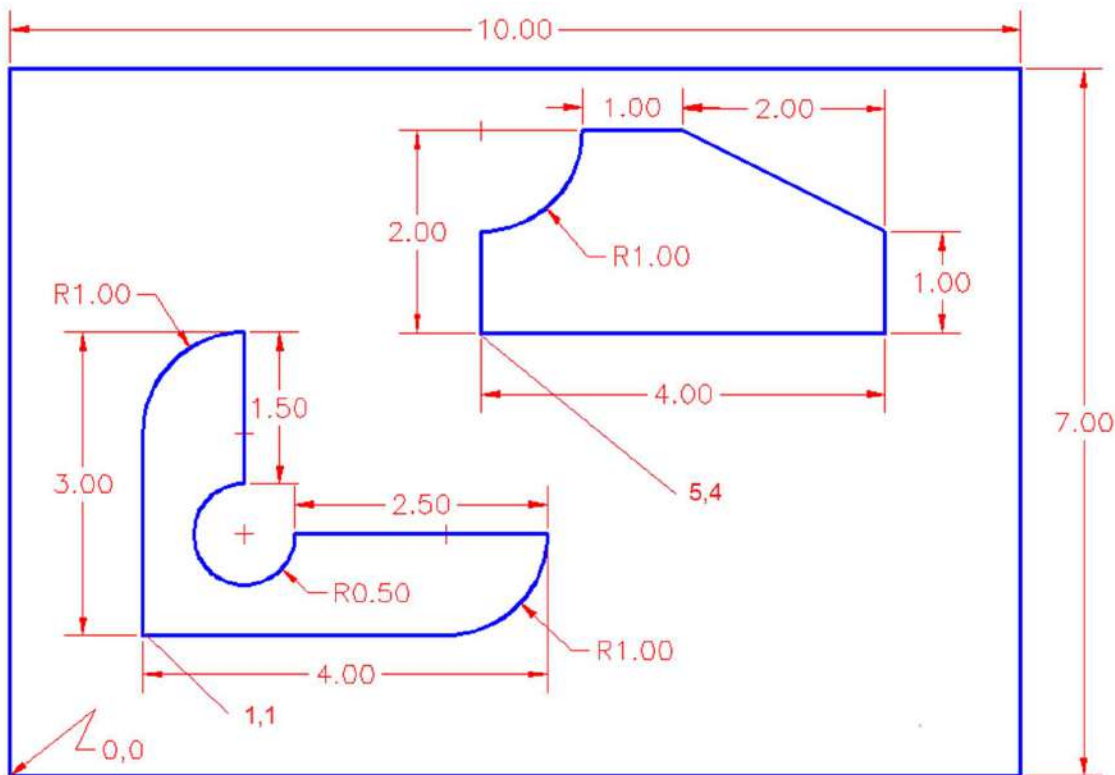
**Osnap settings** - opens the Osnap dialog box.

**Temporary Tracking** - Creates a temporary tracking point (see Object Tracking).

**Task 1:**

		
		<p>Find the Value for A and draw the diagram.</p>

Task 2:



Assignment:

