

Lab #03

Objective: Understanding & Implementation of drawings through Array, Polygon, Donut, Rectangle and Hatch (Bhatch) commands.

EXERCISE #01:**COMMANDS:**

Command: POLYGON

POLYGON Enter number of sides <4>: 3

CIRCLE Specify center point for circle or [3P/2P/Ttr (tan tan radius)]: 5,6

Specify radius of circle or [Diameter]: 0.5

Command: array

Select objects: 1 found Select

objects: 1 found, 2 total

Select objects:

Command: z

ZOOM

Specify corner of window, enter a scale factor (nX or nXP), or

[All/Center/Dynamic/Extents/Previous/Scale/Window/Object] <real time>: a

Command: _dimlinear

Specify first extension line origin or <select object>:

Specify second extension line origin:

Specify dimension line location or

[Mtext/Text/Angle/Horizontal/Vertical/Rotated]:

Dimension text = 3.2500

Command: <Osnap off>

Command: <Osnap on>

Command: _dimlinear

Specify first extension line origin or <select object>:

Specify second extension line origin:

Specify dimension line location or

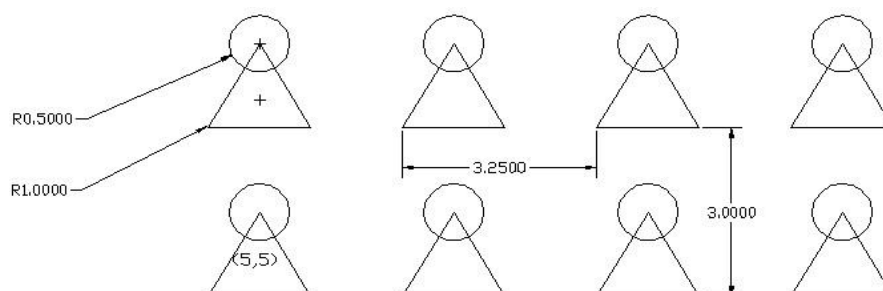
[Mtext/Text/Angle/Horizontal/Vertical/Rotated]:

Dimension text = 3.0000

Command: _dimradius

Select arc or circle:

Dimension text = 0.5000

Output Drawing:

EXERCISE #02:**COMMANDS:**

Command: POLYGON

POLYGON Enter number of sides <3>: 5

Specify center of polygon or [Edge]: 5,5

Enter an option [Inscribed in circle/Circumscribed about circle] <I>: I

Specify radius of circle: 1

Command: C

CIRCLE Specify center point for circle or [3P/2P/Ttr (tan tan radius)]: 5,6

Specify radius of circle or [Diameter] <0.5000>: 0.5

Command: ARRAY

Select objects: 1 found

Select objects: 1 found, 2 total

Command: Z

ZOOM

Specify corner of window, enter a scale factor (nX or nXP), or

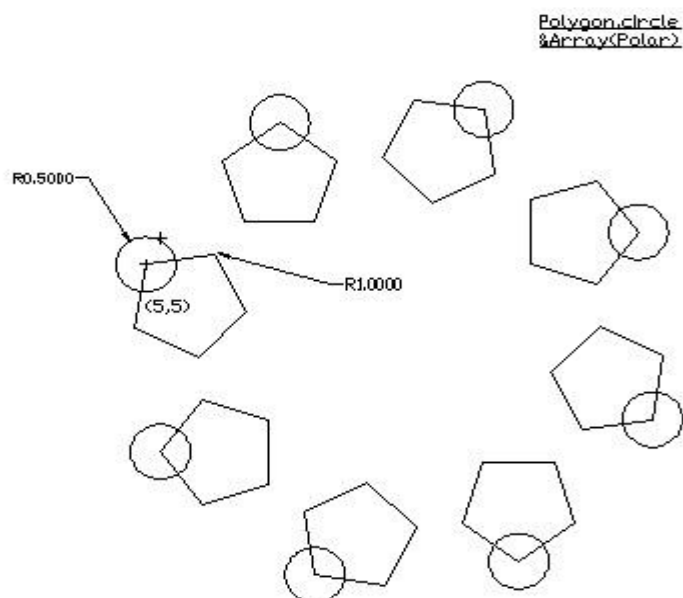
[All/Center/Dynamic/Extents/Previous/Scale/Window/Object] <real time>: A

Command: _dimradius

Select arc or circle:

Dimension text = 0.5000

Specify dimension line location or [Mtext/Text/Angle]:

Output Drawing:

EXERCISE #03:**COMMANDS:**

Command: POLYGON

POLYGON Enter number of sides <5>: 5

Specify center of polygon or [Edge]: 5,5

Enter an option [Inscribed in circle/Circumscribed about circle] <I>: I

Specify radius of circle: 1

Command: C

CIRCLE Specify center point for circle or [3P/2P/Ttr (tan tan radius)]: 5,6

Specify radius of circle or [Diameter] <0.5000>: 0.5

Command: ARRAY

Select objects: 1 found Select

objects: 1 found, 2 total

Select objects:

Command: Z

ZOOM

Specify corner of window, enter a scale factor (nX or nXP), or

[All/Center/Dynamic/Extents/Previous/Scale/Window/Object] <real time>: A

Command: _dimradius

Select arc or circle:

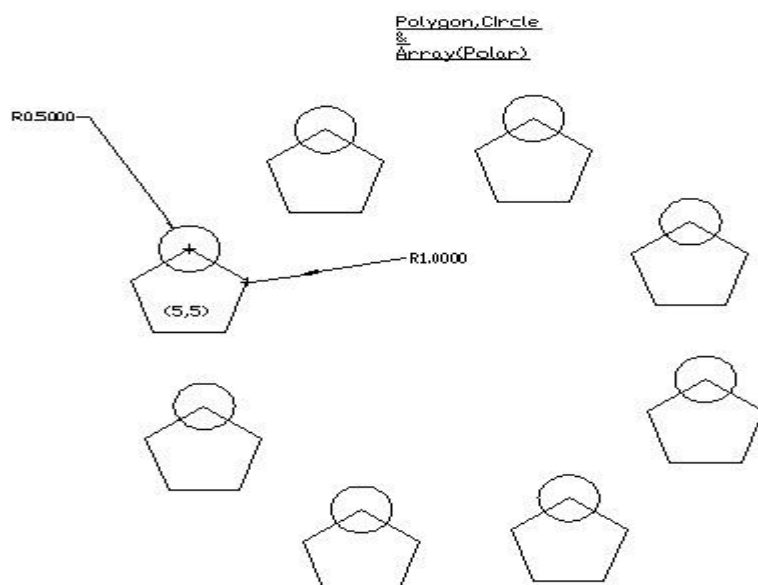
Dimension text = 0.5000

Specify dimension line location or [Mtext/Text/Angle]:

Command: JPGOUT

Select objects or <all objects and viewports>: Specify opposite corner: 17

found Select objects or <all objects and viewports>:

Output Drawing:

EXERCISE #04:**COMMANDS:**

Command: pol

POLYGON Enter number of sides <4>:

7 Specify center of polygon or [Edge]:

6,6

Enter an option [Inscribed in circle/Circumscribed about circle]

<I>: i Specify radius of circle: 1

Command: array Select

objects: 1 found

Select objects:

Command: z

Specify corner of window, enter a scale factor (nX or nXP), or

[All/Center/Dynamic/Extents/Previous/Scale/Window/Object] <real time>: a

Command: bhatch

Select objects or [picK internal point/remove Boundaries]:1 found

Select objects or [picK internal point/remove Boundaries]:

Command: bhatch

Select objects or [picK internal point/remove Boundaries]:1 found

Select objects or [picK internal point/remove Boundaries]:

Command: bhatch

Select objects or [picK internal point/remove Boundaries]:1 found

Select objects or [picK internal point/remove Boundaries]:

Command: bhatch

Select objects or [picK internal point/remove Boundaries]:1 found

Select objects or [picK internal point/remove Boundaries]:

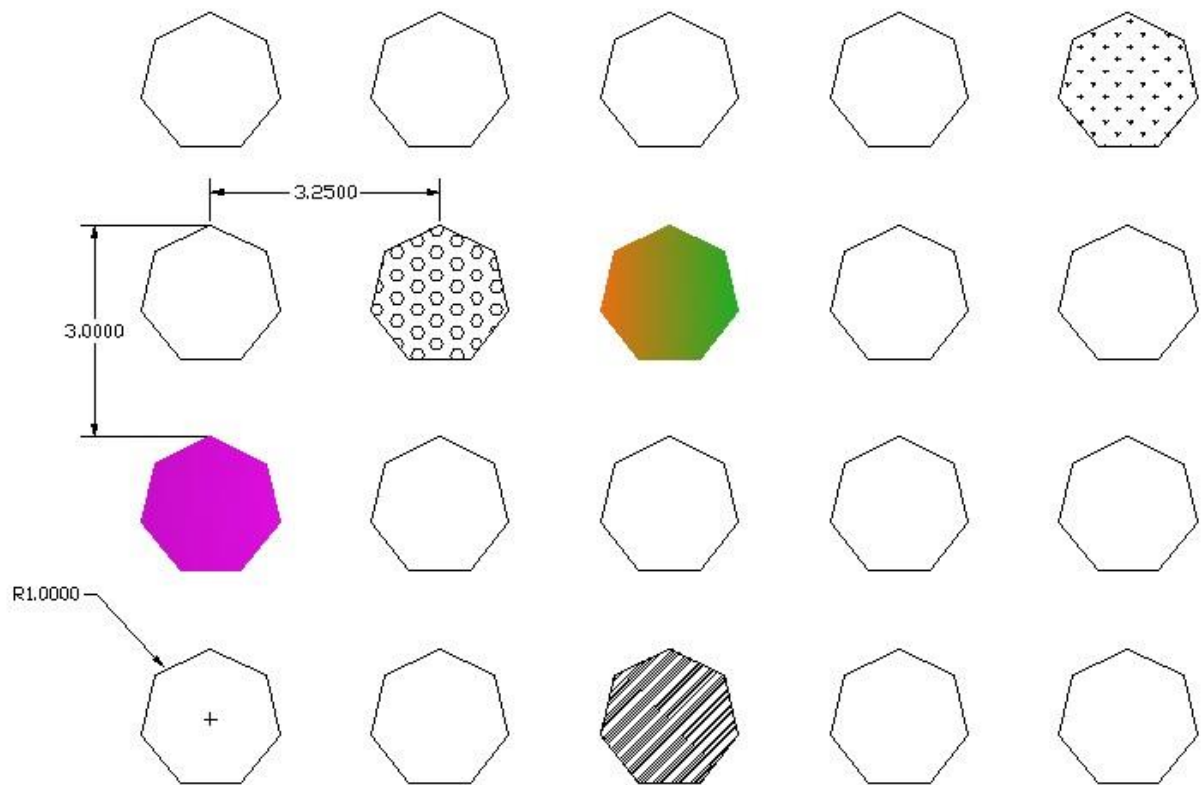
Command: bhatch

Command: _line Specify first point:

Command: _line Specify first point:

Specify next point or [Undo]:

Specify next point or [Undo]:

Output Drawing:**EXERCISE #05:****COMMANDS:**

Command: donut

Specify inside diameter of donut <1.0000>: 2

Specify outside diameter of donut <2.0000>: 1

Command: fill

Enter mode [ON/OFF] <OFF>: on

Command: donut

Specify inside diameter of donut <1.0000>: 2

Specify outside diameter of donut <2.0000>: 1

Command:

Command: _dimradius

Select arc or circle:

Dimension text = 0.7500

Specify dimension line location or [Mtext/Text/Angle]:

Command: _dimdiameter

Select arc or circle:

Dimension text = 1.5000

Specify dimension line location or [Mtext/Text/Angle]:

Command: donut

Specify inside diameter of donut <1.0000>: 1

Specify outside diameter of donut <2.0000>: 1

Command: Specify opposite corner:

Command: donut

Specify outside diameter of donut <1.0000>: 1

Specify center of donut or <exit>:

Specify center of donut or <exit>: *Cancel*

Command: _dimradius

Select arc or circle:

Dimension text = 0.2500

Specify dimension line location or [Mtext/Text/Angle]:

Command: Specify opposite corner:

Command: donut

Specify inside diameter of donut <0.0000>: 0

Specify outside diameter of donut <1.0000>: 2

Command: _dimradius

Select arc or circle:

Dimension text = 0.5000

Specify dimension line location or [Mtext/Text/Angle]:

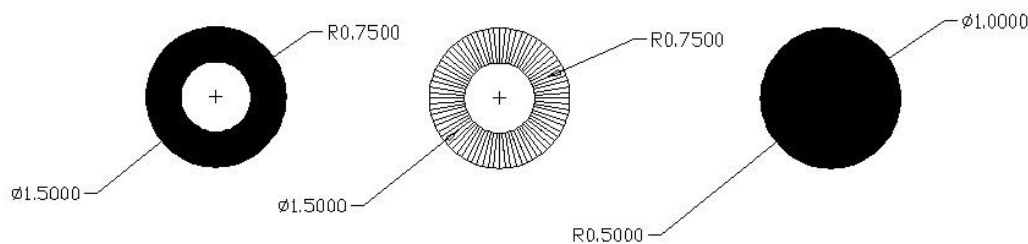
Command: _dimdiameter

Select arc or circle:

Dimension text = 1.0000

Specify dimension line location or [Mtext/Text/Angle]:

Output Drawing:



EXERCISE #06:

COMMANDS:

Command: REC

Specify first corner point or [Chamfer/Elevation/Fillet/Thickness/Width]:

15,5 Specify other corner point or [Area/Dimensions/Rotation]: 35,15

Command:Z

Specify corner of window, enter a scale factor (nX or nXP), or

Command:

Command: _dimordinate

Specify leader endpoint or [Xdatum/Ydatum/Mtext/Text/Angle]:

Dimension text = 15.0000

Command: _dimordinate

Specify leader endpoint or [Xdatum/Ydatum/Mtext/Text/Angle]:

Dimension text = 35.0000

Current text style: "Standard" Text height: 0.2

Specify first corner:

Specify opposite corner or [Height/Justify/Line spacing/Rotation/Style/Width]:

Command: MTEXT

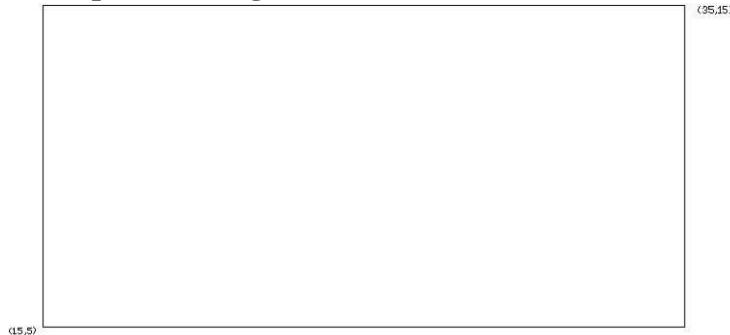
Current text style: "Standard" Text height: 0.2000 Specify

first corner

Specify opposite corner or [Height/Justify/Line spacing/Rotation/Style/Width]:

Command: Specify opposite corner:

Output Drawing:



Continuing commands:

2)Command: fillet

Current settings: Mode = TRIM, Radius = 0.0000

Select first object or [Undo/Polyline/Radius/Trim/Multiple]: r

Specify fillet radius <0.0000>: 1

Select first object or [Undo/Polyline/Radius/Trim/Multiple]:

Select second object or shift-select to apply corner: Command: fillet

Current settings: Mode = TRIM, Radius = 0.0000

Select first object or [Undo/Polyline/Radius/Trim/Multiple]: r

Specify fillet radius <0.0000>: 1

Select first object or [Undo/Polyline/Radius/Trim/Multiple]:

Select second object or shift-select to apply corner: Command: fillet

Current settings: Mode = TRIM, Radius = 0.0000

Select first object or [Undo/Polyline/Radius/Trim/Multiple]: r

Specify fillet radius <0.0000>: 1

Select first object or [Undo/Polyline/Radius/Trim/Multiple]:

Select second object or shift-select to apply corner: Command: fillet

Current settings: Mode = TRIM, Radius = 0.0000

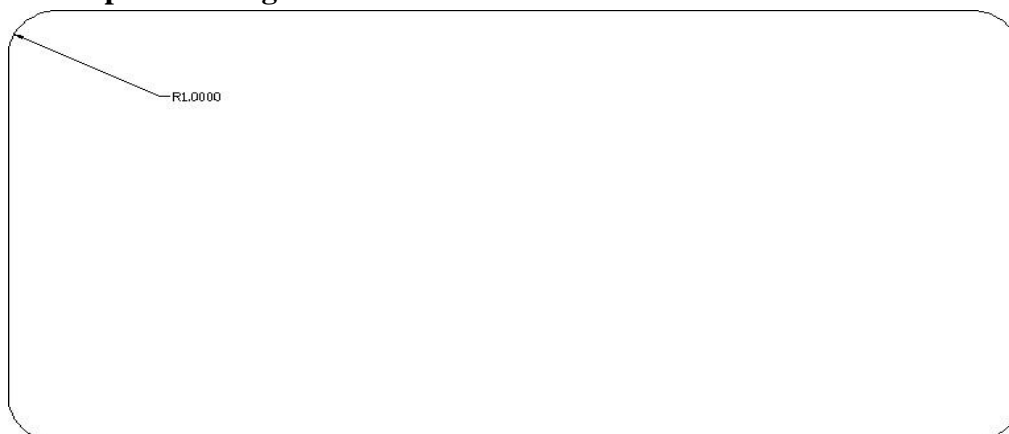
Select first object or [Undo/Polyline/Radius/Trim/Multiple]: r

Specify fillet radius <0.0000>: 1

Select first object or [Undo/Polyline/Radius/Trim/Multiple]:

Select second object or shift-select to apply corner

Output Drawing:



Continuing commands:

Current settings: Mode = TRIM, Radius = 1.0000

Select first object or [Undo/Polyline/Radius/Trim/Multiple]: r

Specify fillet radius <1.0000>: 0

Select first object or [Undo/Polyline/Radius/Trim/Multiple]: <Snap off> Select second object or shift-select to apply corner:

Command: fillet

Current settings: Mode = TRIM, Radius = 0.0000

Select first object or [Undo/Polyline/Radius/Trim/Multiple]: r

Specify fillet radius <0.0000>: 0

Select first object or [Undo/Polyline/Radius/Trim/Multiple]:

Select second object or shift-select to apply corner:

Select second object or shift-select to apply corner: Command: fillet

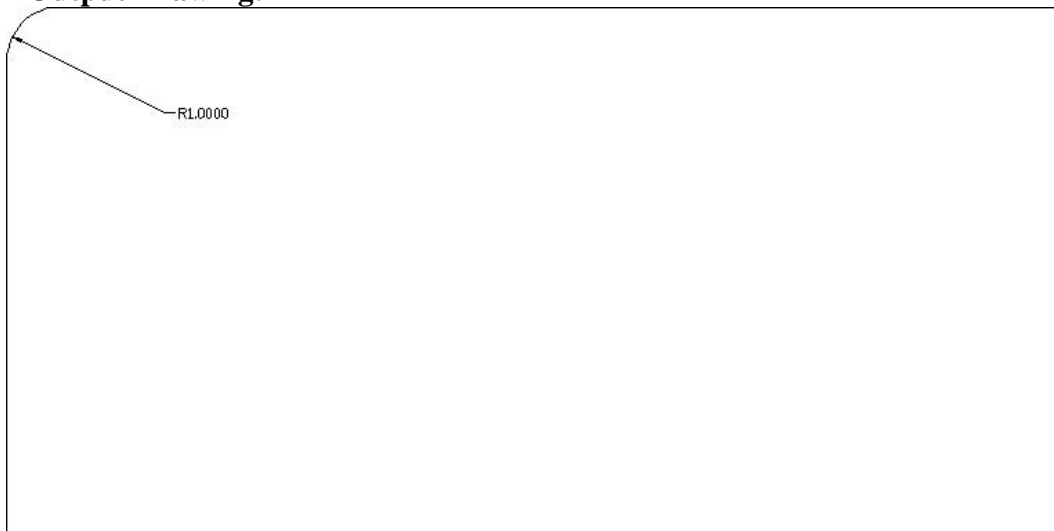
Current settings: Mode = TRIM, Radius = 0.0000

Select first object or [Undo/Polyline/Radius/Trim/Multiple]: r

Specify fillet radius <0.0000>: 0

Select first object or [Undo/Polyline/Radius/Trim/Multiple]:

Select second object or shift-select to apply corner:

Output Drawing:**Continuing commands:**

4) Command: chamfer

(TRIM mode) Current chamfer Dist1 = 0.0000, Dist2 = 0.0000

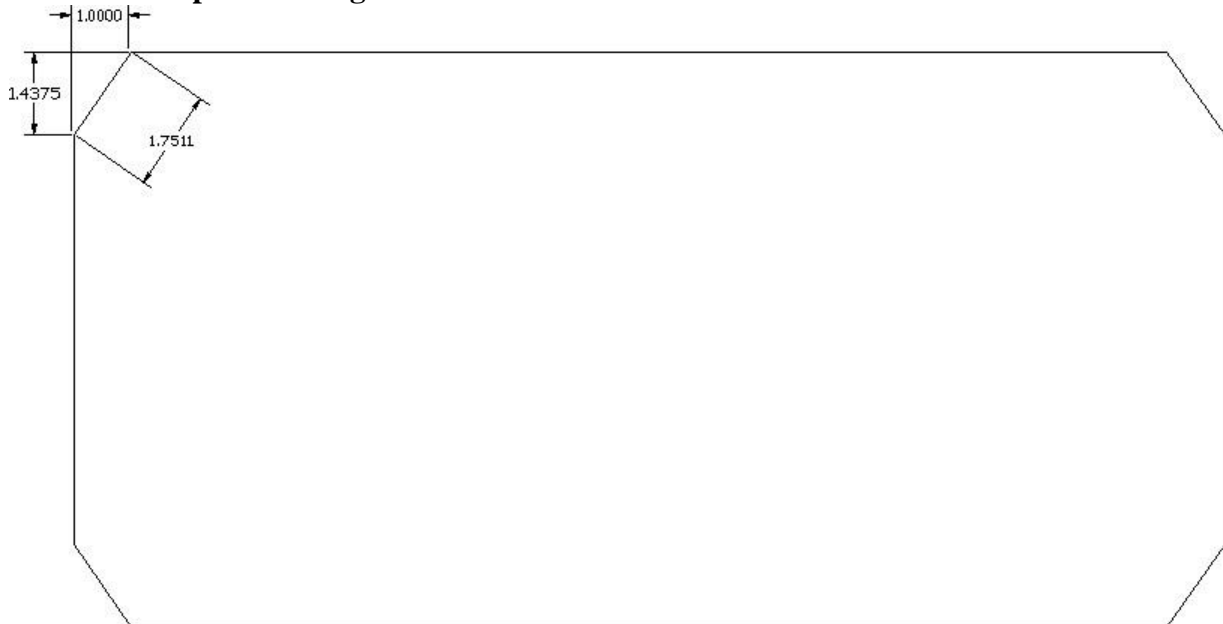
Select first line or [Undo/Polyline/Distance/Angle/Trim/mEthod/Multiple]: d

Specify first chamfer distance <0.0000>: 1.4375

Specify second chamfer distance <1.4375>: 1

Select first line or [Undo/Polyline/Distance/Angle/Trim/mEthod/Multiple]:

Select second line or shift-select to apply corner:

Output Drawing:**Continuing Commands:**

5:Command: chamfer

(TRIM mode) Current chamfer Dist1 = 0.0000, Dist2 = 0.0000

Select first line or [Undo/Polyline/Distance/Angle/Trim/mEthod/Multiple]: d

Specify first chamfer distance <0.0000>: 1

Specify second chamfer distance <1.0000>: 0.5

Select first line or

[Undo/Polyline/Distance/Angle/Trim/mEthod/Multiple]:

Select second line or shift-select to apply corner

Output Drawing: