

2.5 Ellipse

An ellipse is one object. ellipse is access by

1. **Command Line:** *El*

2. **Menu Bar:** *Draw* ➔ *Ellipse*

3. **Draw Bar:**

In AutoCAD three ways to draw ellipse: two of them are

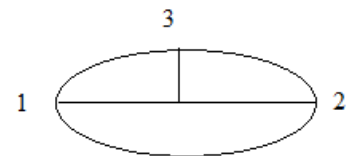
1. **Axis end (Specify one axis and the end of second)**

Command : *ellipse*

Specify axis end point of ellipse or [Arc / Center]:

Specify other end point of axis:

Specify distance to other axis or [Rotation]:



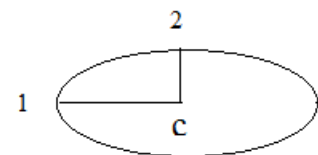
2. **Center (Specify the center and the end of each axis)**

Specify axis end point of ellipse or [Arc / Center]:*C*

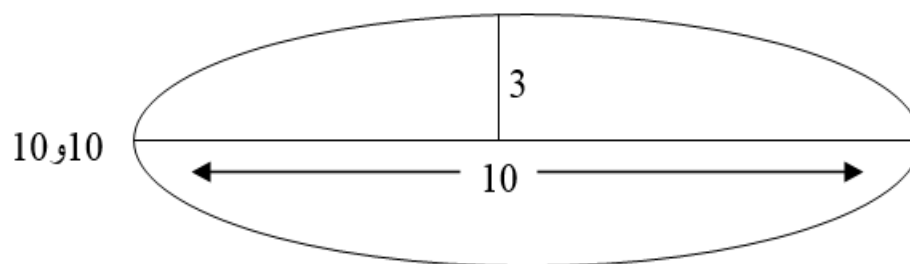
Specify center of ellipse:

Specify end point of axis:

Specify distance to other axis or [rotation]:



Example (4-1): Draw the following figure



2.6 Polygon

The Polygon command enables to create regular polygon with 3 to 1024 sides. A regular polygon is one with sides of equal length.

1. **Command Line:** *Pol*

2. **Menu Bar:** *Draw* ➔ *Polygon*

3. **Draw Bar:**

When enter polygon command, the following message appear:

Enter number of sides<>:

Specify center point or [edge]:

If the Edge option is selected, the program require the following:

Specify first endpoint of edge:

Specify second endpoint of edge:

If specifies Center point is selected, the program requires the radius of circle:

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

Options:

Inscribed option allows control of one half of the distance across the corner. . **I**

Circumscribed option allows control of one half of the distance across the flats. . **C**

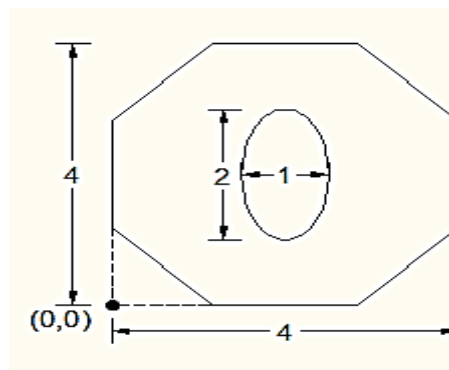
When determine one of the options the program display the message:

Specify radius of circle:

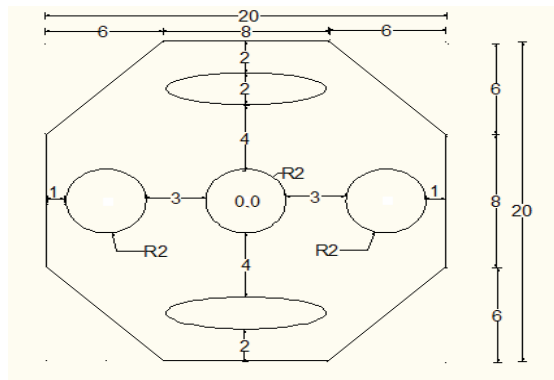


Remark: (the circle is not display in the drawing).

Example (4-2): Draw the following figure.



Example (4-3): Draw the following figure.



2.7 Poly Line

A polyline is a connected sequence of line segments created as a single object. You can create straight line segments, arc segments, or a combination of the two.

To access the **Pline** command:

1. **Command Line:** *pline* or *PL*

2. **Menu Bar:** *Draw* → *PolyLine*

3. **Draw Bar :**

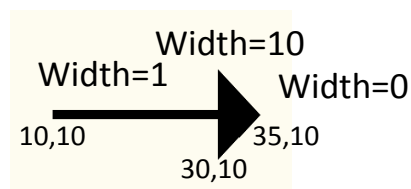
Some reasons may choose to use polylines:

- Vertices remain joined
- Absolute line width that can be constant or tapered across a segment
- Move and copy a polyline as a unit
- Easily create rectangles and polygons as single objects

Prompt: **Arc / Close / Halfwidth / Length / Undo / Width / <Endpoint of Line>:**

select an **option** or select the next end of the **Pline** segment.

Example (4-4): Draw the following figure



Example (4-5): using polyline, Draw the following figure

