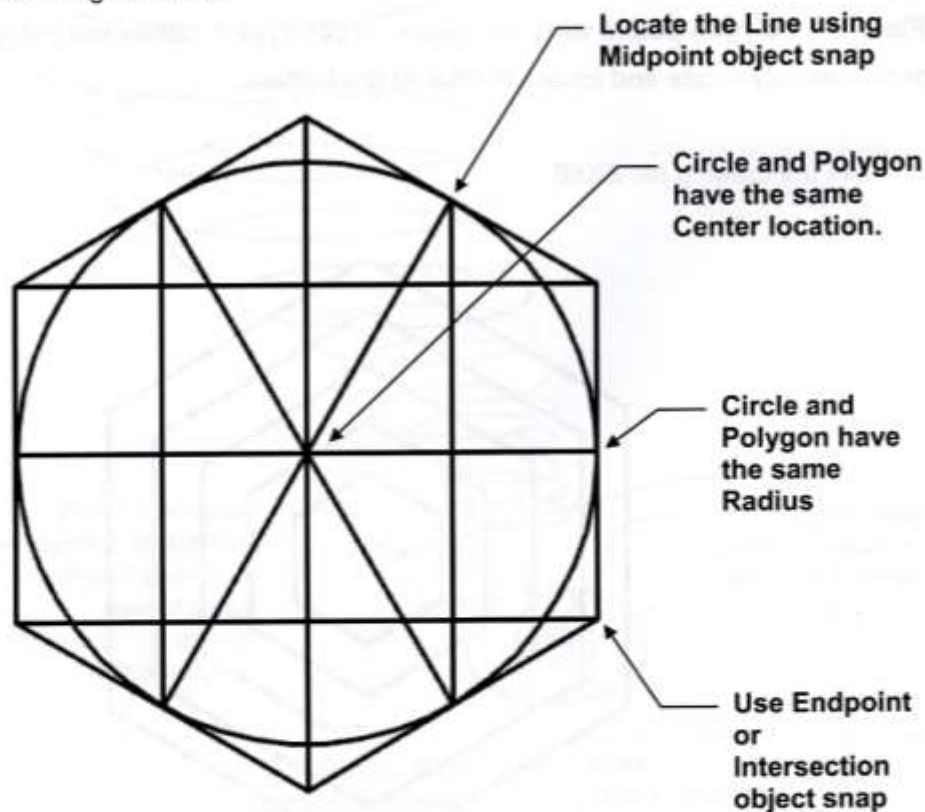


# EXERCISE 5A

## INSTRUCTIONS:

1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. **Draw** the Circle first using the Center / Radius option.
3. Draw the Circumscribed Polygon next using object snap Center to locate the center of the Polygon at the center of the Circle and Quadrant object snap to locate the radius of the Polygon on the Circle.
4. Draw the Lines last using Object snaps Midpoint and Endpoint.
5. **Ortho (F8) ON**
6. **Increment Snap (F9) OFF** (It will get in your way)
7. Use layer: Object Line
8. **Save** the drawing as: **EX5A**



# EXERCISE 5B

## INSTRUCTIONS:

1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. Select the **Point Style** shown below
3. Draw the **Point** first.

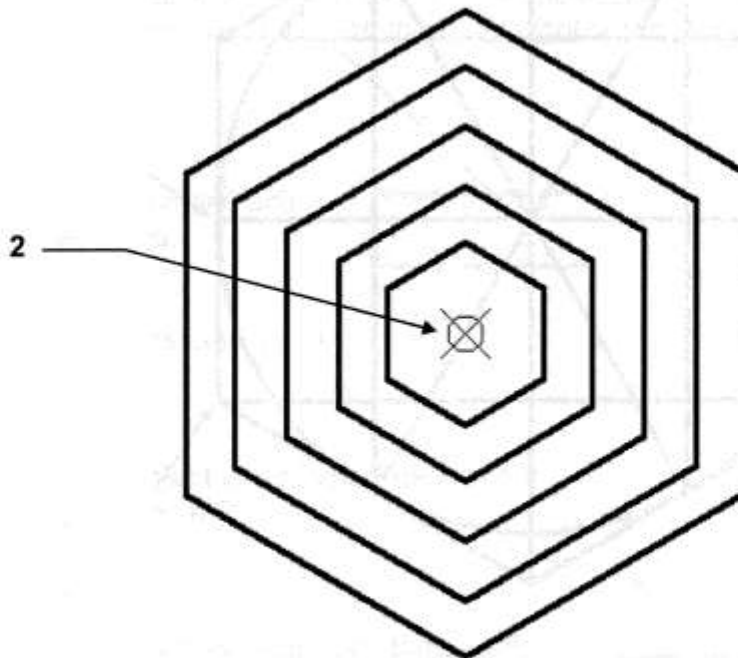
**Note:** Your **Point** may not appear as large as the one shown below.

4. Draw the Inscribed Polygons
  - a. Locate the center of each Polygon using Object Snap **NODE**.
5. **Ortho** (F8) **ON**
6. **Increment Snap** (F9) **OFF**
7. Use layer Object Line

### **Note:**

**Place the Polygon points with the cursor. If you type a radius the Polygon will automatically rotate and locate the flat at the bottom.**

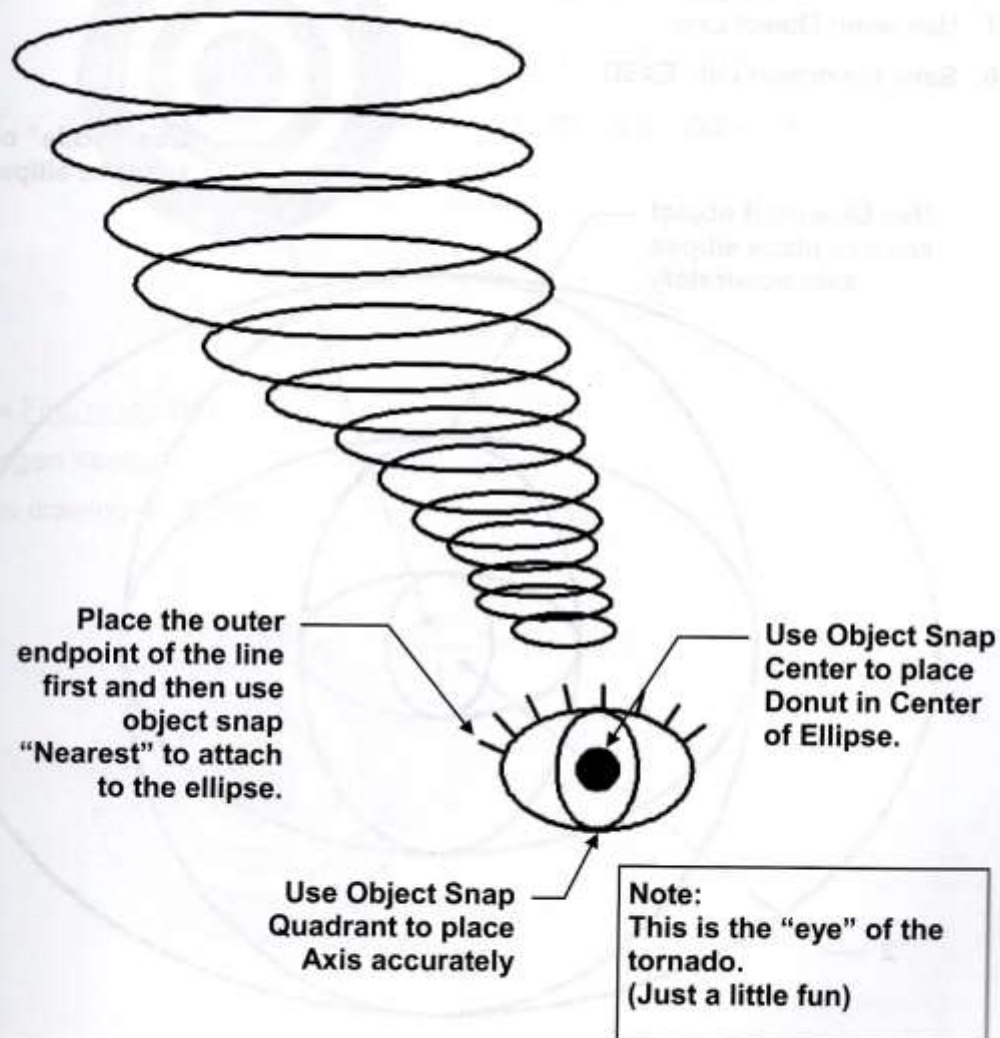
8. **Save** the drawing as: **EX5B**



# EXERCISE 5C

## INSTRUCTIONS:

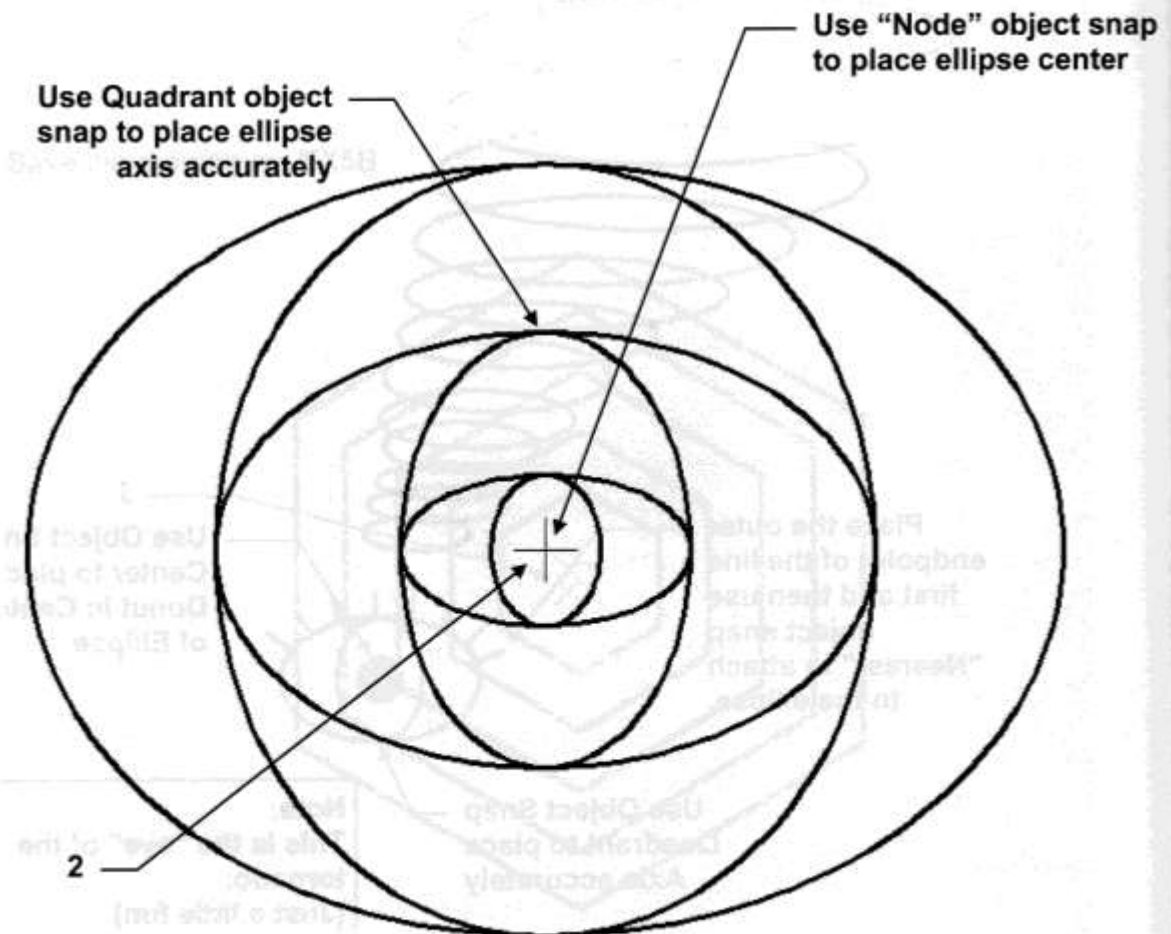
1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. Draw the Objects below using **Ellipse, Line** and **Donut**.
3. Use Object Snap: **Quadrant, Center** and **Nearest**.
4. **Ortho (F8) ON**
5. **Increment Snap (F9) OFF**
6. Use any layer you like.
7. **Save** the drawing as: **EX5C**



# EXERCISE 5D

## INSTRUCTIONS:

1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. Select the **Point Style** shown below
3. Draw the **Point** first.
4. Draw the **Ellipses**:
  - a. Locate the **center** of each Ellipse using Object Snap: **NODE**.
  - b. Locate the **Axis** using Object snap: **Quadrant**
5. **Ortho (F8) ON**
6. **Increment Snap (F9) OFF**
7. Use layer: Object Line
8. **Save** the drawing as: **EX5D**



# EXERCISE 5E

## INSTRUCTIONS:

### STEP 1

1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. Draw the 3 **DONUTS** shown below.
3. Use Object Snap **Center** to place the centers accurately.
4. **Increment Snap (F9) OFF**
5. Use layer: **Object Line**

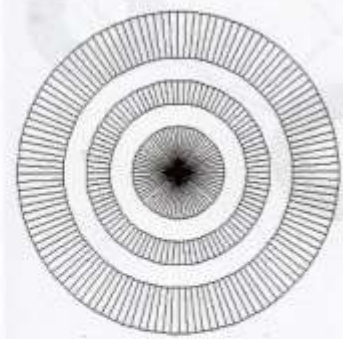


### Donut sizes

1. ID = 0    OD = 1
2. ID = 1.5    OD = 2
3. ID = 2.5    OD = 3.5

### STEP 2

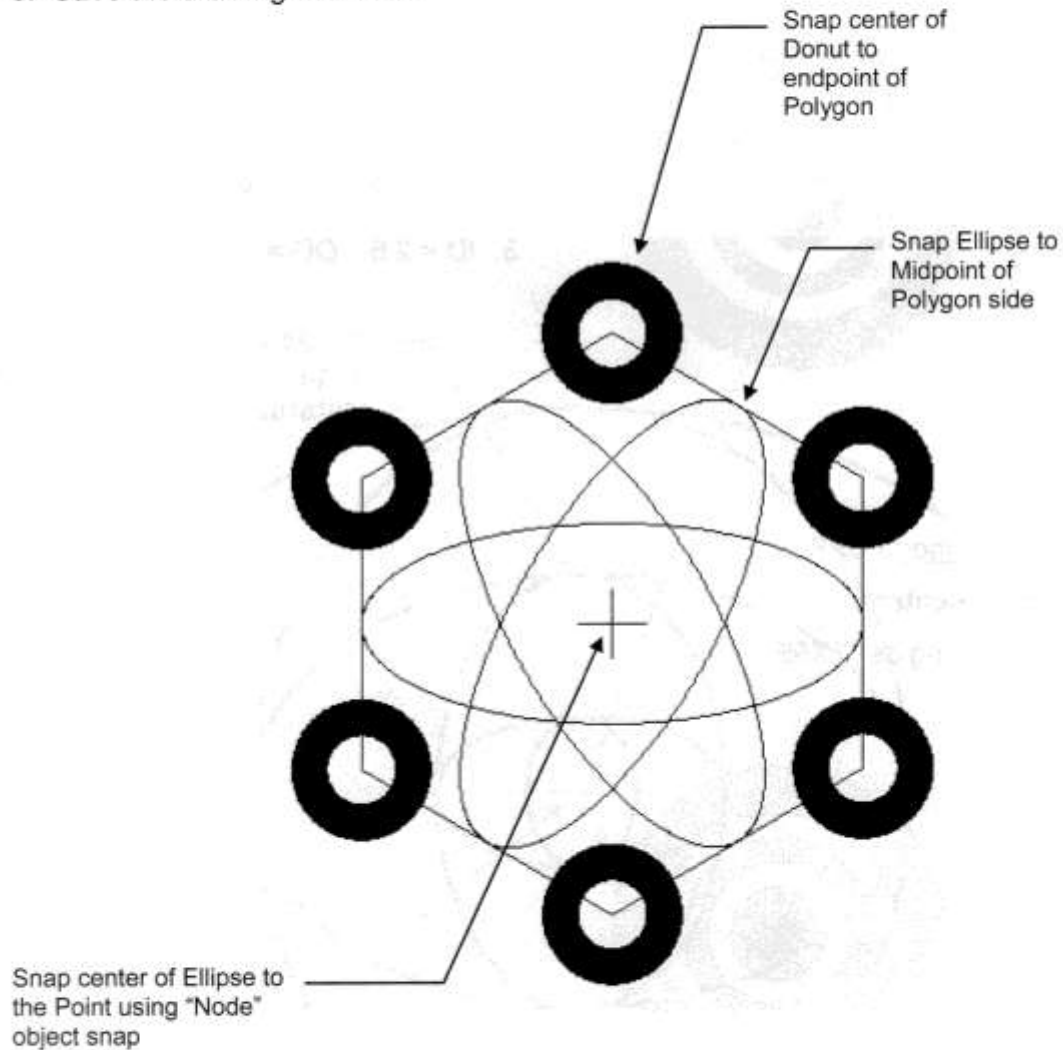
6. Turn the FILL mode **OFF**
7. Type **Regen <enter>**
8. **Save** the drawing as: **EX5E**



# EXERCISE 5F

## INSTRUCTIONS:

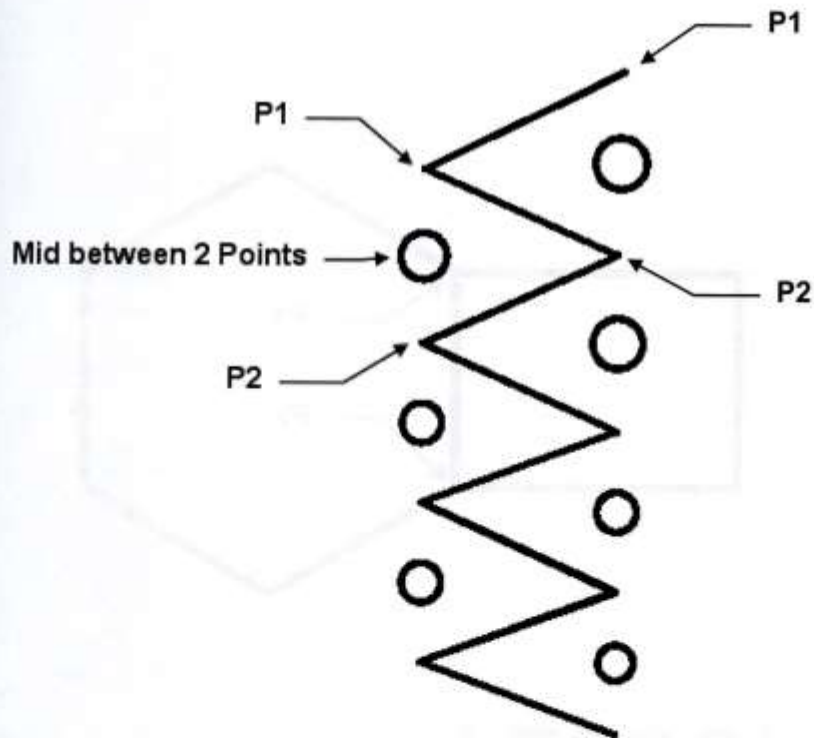
1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. Draw the objects below using: **Point, Polygon, Ellipse** and **Donut**.
3. **Ortho (F8) ON**
4. **Increment Snap (F9) OFF**
5. Use whatever layers you like
6. **Save** the drawing as: **EX5F**



# EXERCISE 5G

## INSTRUCTIONS:

1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. Draw the Zig Zag Lines approximately as shown below.
3. Set Running Object Snap to "**Endpoint**".
4. **Increment Snap (F9) OFF**
5. **Ortho (F8) = ON**
6. Draw the circles at the "**Midpoint between 2 points**". (P1 and P2)
7. Use layer: Object Line.
8. **Save** the drawing as: **EX5G**



# EXERCISE 5H

## INSTRUCTIONS:

1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. Draw the **Rectangle** on the left first. (any size)
3. Draw the **Polygon** next using the "**EDGE**" option.
  - A. Use Object Snap: "**Endpoint**" to place **Edge** points accurately.
4. **Increment Snap (F9) OFF**
5. **Ortho (F8) = ON**
6. Use Layer: Object Line
7. **Save** the drawing as: **EX5H**

