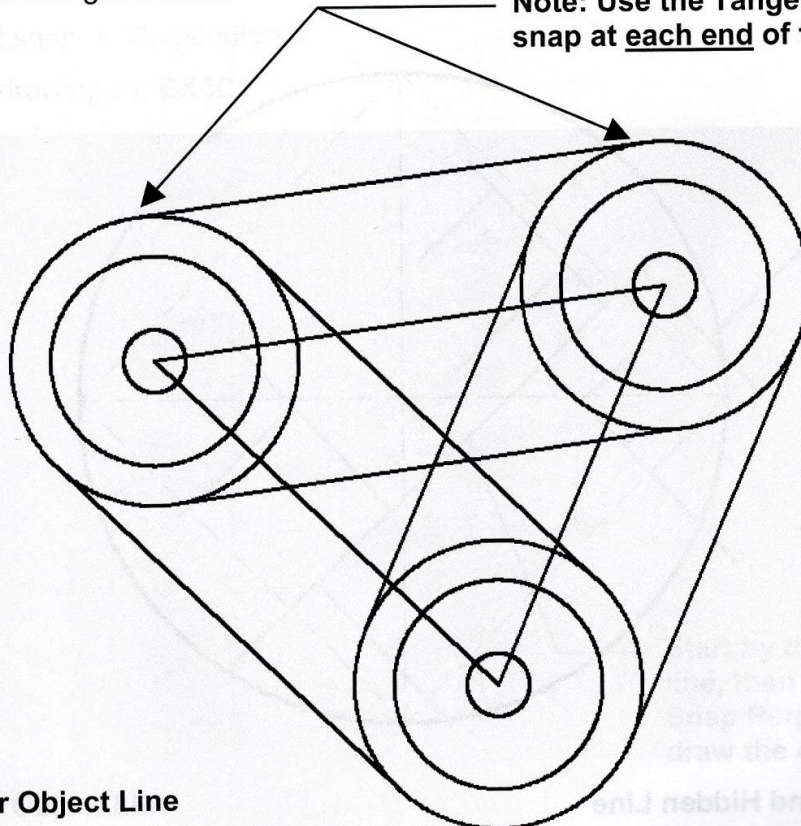


EXERCISE 4A

INSTRUCTIONS:

1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. Set **Units** and **Precision**:
Units = Fractional **Precision = 1/2"**
3. Set **Drawing Limits**:
 Lower Left corner = 0,0 Upper Right Corner = 20, 15
4. Make sure you use **Zoom / All** after setting Drawing Limits
5. Erase the Rectangle that appears with the template, it will appear too small.
6. Turn **OFF** the **Snap** and **Ortho**.
 (Your cursor should move freely)
7. Draw the objects shown below using:
 Circle, center radius and Line (Use Layer = Object Line)
 Object snap = Center and Tangent
8. **Save** the drawing as: **EX4A**

Note: Use the Tangent object snap at each end of the line.

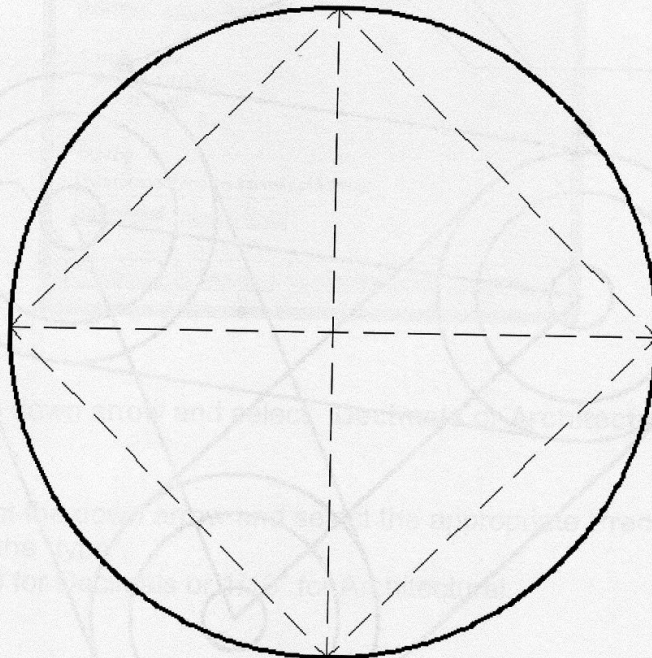


Use Layer Object Line

EXERCISE 4B

INSTRUCTIONS:

1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. Set **Units** and **Precision**:
Units = Fractional **Precision = 1/4"**
3. Set **Drawing Limits**:
Lower Left corner = 0,0 Upper Right Corner = 12, 9
4. Make sure you use **Zoom / All** after setting Drawing Limits
5. Turn **OFF** the **Snap** and **Ortho**.
(Your cursor should move freely)
6. Draw the objects shown below using:
Circle, center radius (Use Layer = Object Line)
Line (Use Layer = Hidden Line)
Object snap = Quadrant
7. **Save** the drawing as: **EX4B**

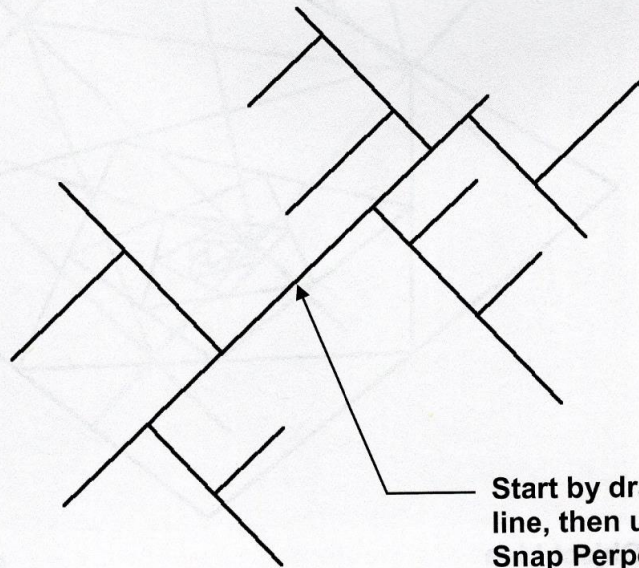


Use Layers:
Object Line and Hidden Line

EXERCISE 4C

INSTRUCTIONS:

1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. Set **Units** and **Precision**:
Units = Architectural **Precision** = 1/2"
Note: A warning may appear asking you if you "are you sure you want to change the units?" Select the OK button.
3. Set **Drawing Limits**:
Lower Left corner = 0,0 Upper Right Corner = 25, 20
4. Make sure you use **Zoom / All** after setting Drawing Limits
5. Erase the Rectangle that appears with the template
6. Turn **OFF** the **Snap** and **Ortho**.
(Your cursor should move freely)
7. Draw the objects shown below using:
Line (Use Layer = Object Line)
Object snap = Perpendicular
8. **Save** the drawing as: **EX4C**



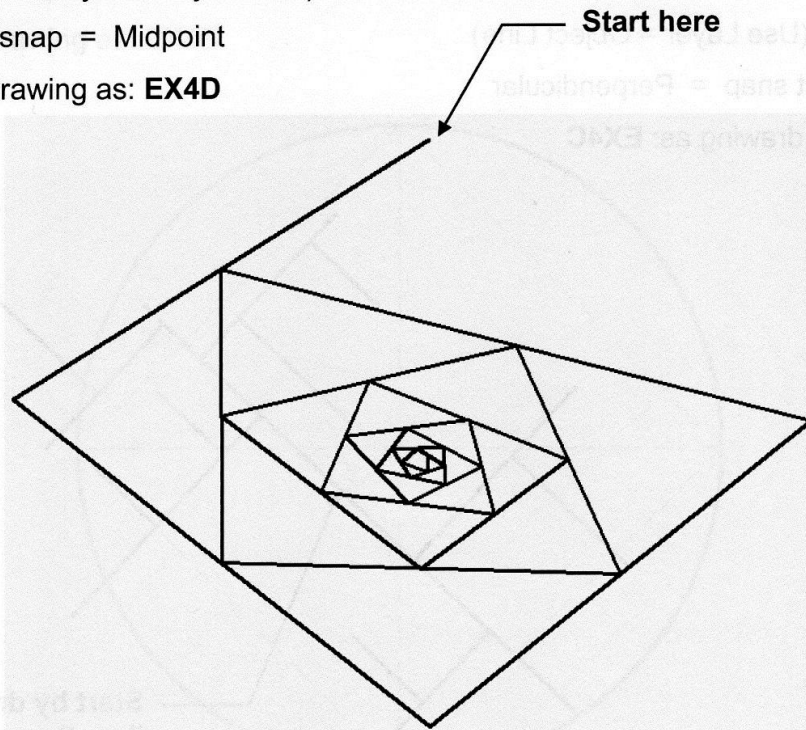
Start by drawing this line, then use Object Snap Perpendicular to draw the other lines.

Use Layer = Object Line

EXERCISE 4D

INSTRUCTIONS:

1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. Set **Units** and **Precision**:
Units = Decimals **Precision** = 0.00
Note: A warning may appear asking you if you “are you sure you want to change the units?” Select the OK button.
3. Set **Drawing Limits**:
Lower Left corner = 0,0 Upper Right Corner = 12,9
4. Make sure you use **Zoom / All** after setting Drawing Limits
5. Turn **OFF Snap** and **Ortho**.
(Your cursor should move freely)
6. Draw the objects shown below using:
Line (Use Layer = Object Line)
Object snap = Midpoint
7. **Save** the drawing as: **EX4D**

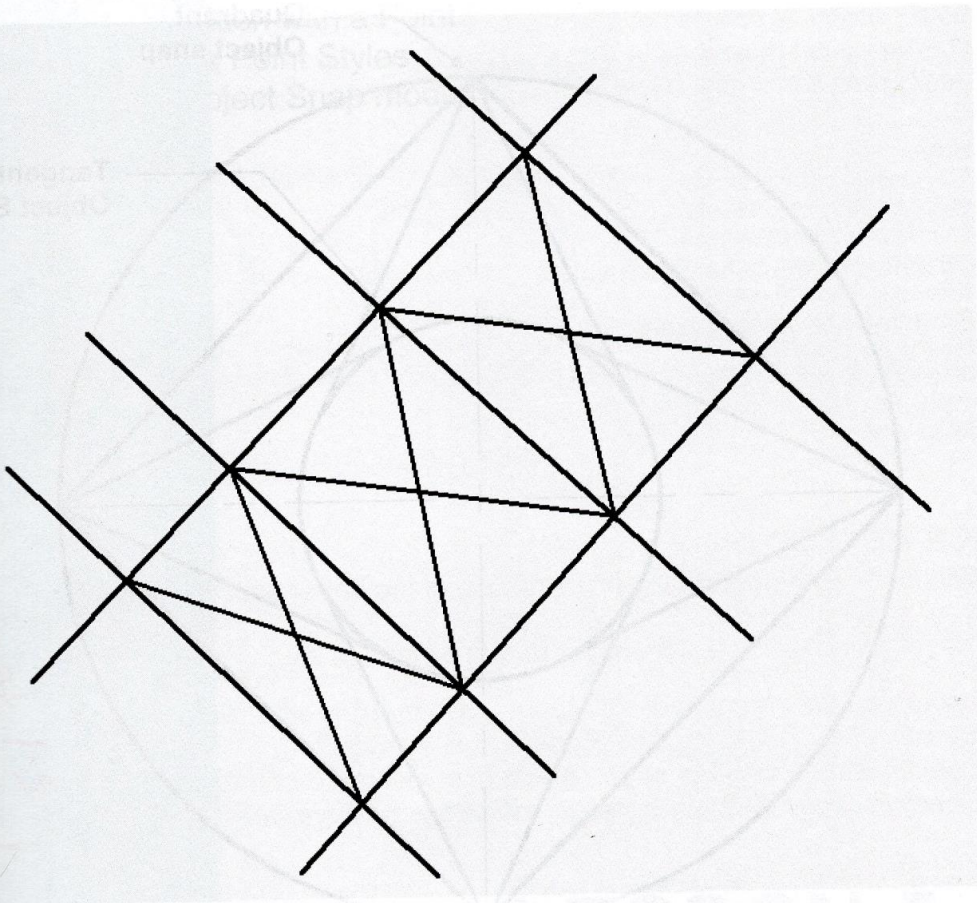


Use Layer = Object Line

EXERCISE 4E

INSTRUCTIONS:

1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. Turn **OFF Snap** and **Ortho**.
3. Draw the objects shown below using:
Line (Use Layer = Object Line)
Object snap = Intersection
4. **Save** the drawing as: **EX4F**

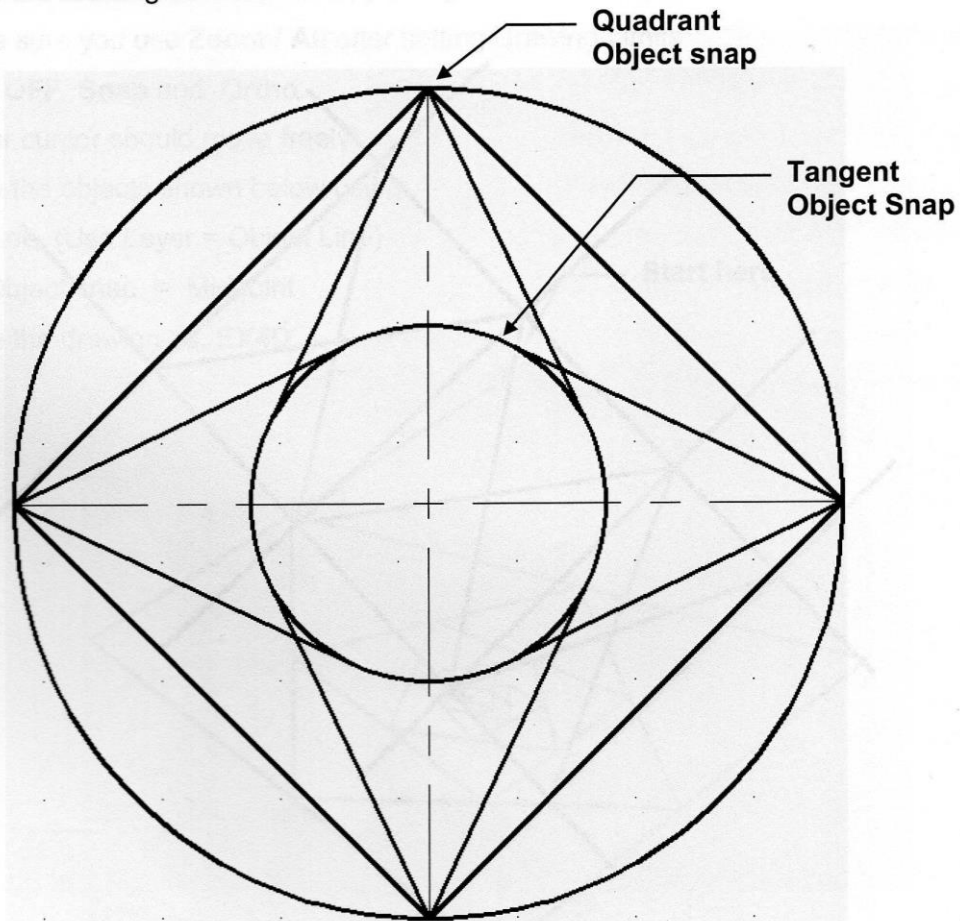


Use Layer = Object Line

EXERCISE 4F

INSTRUCTIONS:

1. Start a **NEW** file using **2015-Workbook Helper.dwt**.
2. Turn **OFF Snap** and **Ortho**.
3. Draw the 2 Circles on layer Object with the following Radii : 1.5 and 3.5.
(Use Object Snap: Center so both circles will have the same center)
4. Draw the Lines using **Layers: Object Line** and **Centerline**
5. Use **Object Snap** Quadrant and Tangent
6. **Save** the drawing as: **EX4G**



Use Layers = Object Line and Centerline