EXERCISE 4A

INSTRUCTIONS:

1. Start a NEW file using 2013-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**.

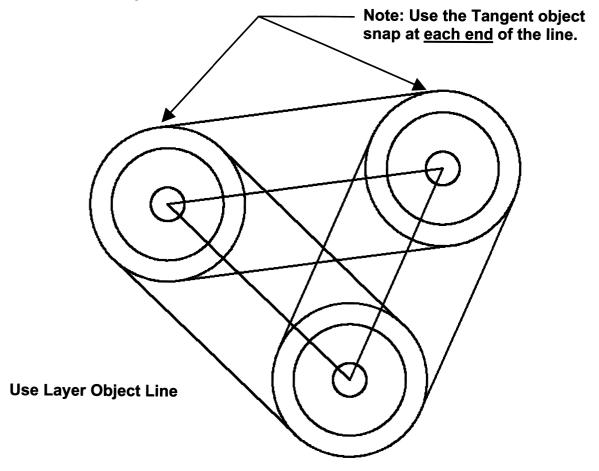
(Your cursor should move freely)

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



EXERCISE 4B

INSTRUCTIONS:

1. Start a NEW file using 2013-Workbook Helper.dwt.

2. Set Units and Precision:

Units = Fractional

Precision = 1/4"

3. Set Drawing Limits:

Upper Right Corner = 12, 9 Lower Left corner = 0,0

- 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:

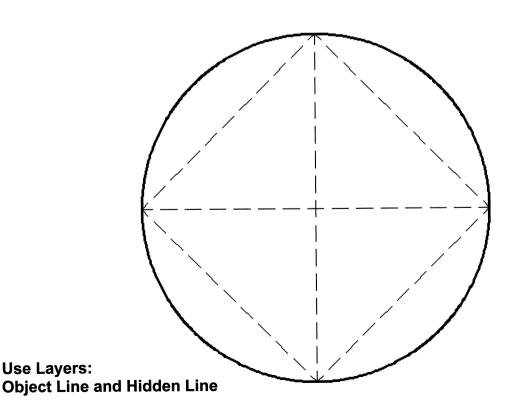
Circle, center radius (Use Layer = Object Line)

Line (Use Layer = Hidden Line)

Object snap = Quadrant

7. Save the drawing as: EX4B

Use Layers:



EXERCISE 4C

INSTRUCTIONS:

- 1. Start a NEW file using 2013-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 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.

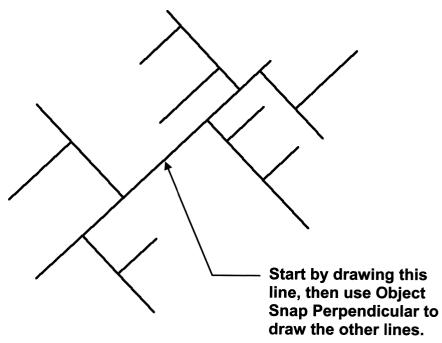
(Your cursor should move freely)

7. Draw the objects shown below using:

Line (Use Layer = Object Line)

Object snap = Perpendicular

8. Save the drawing as: EX4C



EXERCISE 4D

INSTRUCTIONS:

- 1. Start a NEW file using 2013-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 OK button.

3. Set Drawing Limits:

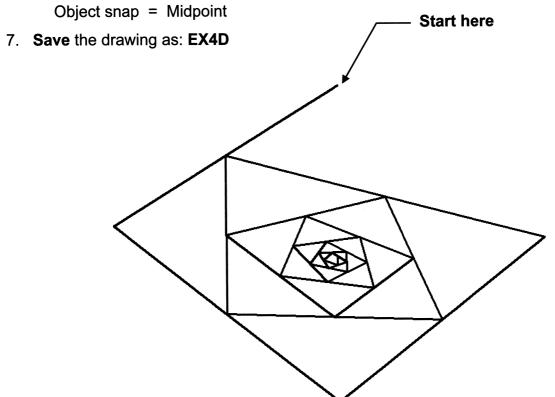
Lower Left corner = 0,0 Upper Right Corner = 12,9

- 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)



EXERCISE 4E

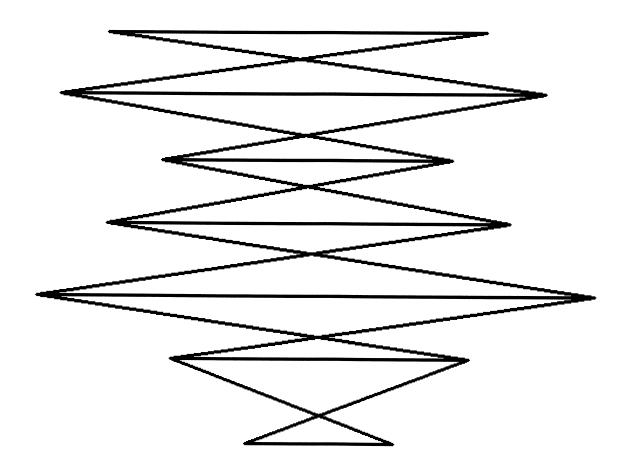
INSTRUCTIONS:

- 1. Start a NEW file using 2013-Workbook Helper.dwt.
- 2. Turn OFF Snap.
- 3. Turn **ON Ortho** for the Horizontal lines only.
- 4. Draw the Horizontal lines first with Ortho On
- 5. Turn Ortho Off and draw the angled lines using Object Snap Endpoint.
- 6. Draw the objects shown below using:

Line (Use Layer = Object Line)

Object snap = Endpoint

7. Save the drawing as: EX4E



EXERCISE 4F

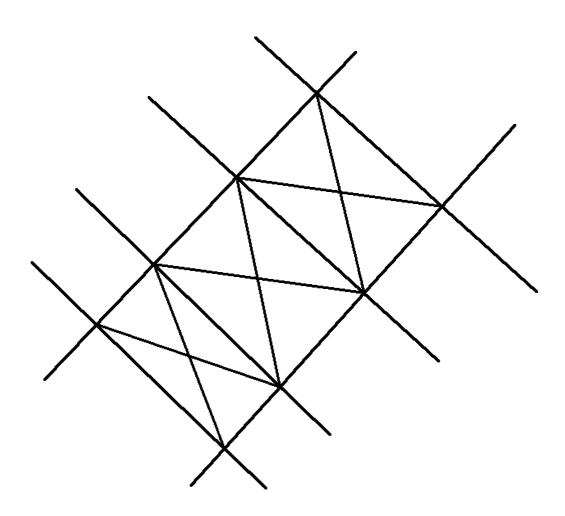
INSTRUCTIONS:

- 1. Start a **NEW** file using **2013-Workbook Helper.dwt.**
- 2. Turn OFF Snap and Ortho.
- 3. Draw the objects shown below using:

Line (Use Layer = Object Line)

Object snap = Intersection

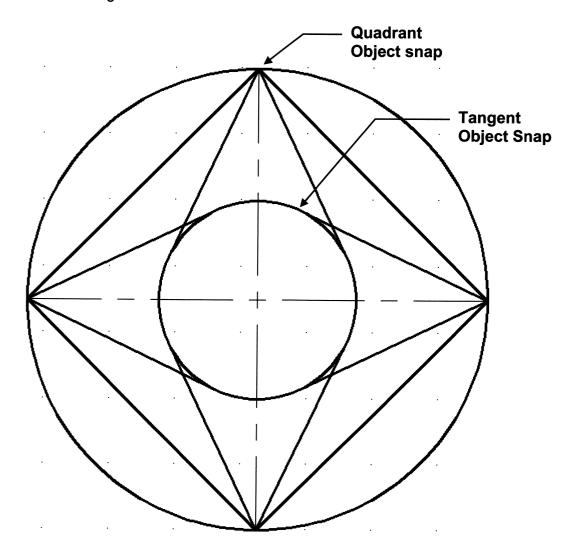
4. Save the drawing as: EX4F



EXERCISE 4G

INSTRUCTIONS:

- 1. Start a NEW file using 2013-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 <u>Object Snap: Center</u> so both circles will have the same center)
- 4. Draw the Lines using Layers: Object Line and Centerline
- 5. Use **Object Snap** Quadrant and <u>Tangent</u>
- 6. Save the drawing as: EX4G



Use Layers = Object Line and Centerline