

4-1

1. Choose the Circle tool in the Draw toolbar.
2. In response to; Specify center point for circle or [3P/2P/Ttr (tan tan radius)]: type 2P and press the Enter key.
3. In response to; Specify first end point of circle's diameter: choose the Snap to Quadrant tool and click the circle near quadrant X.
4. In response to; Specify second end point of circle's diameter: type @.75,0 and press the Enter key.

4-2

1. Choose Line in the Draw toolbar.
2. In response to; Specify first point: choose the Snap to Tangent tool and click on the large circle near point A.
3. In response to; Specify next point or [Undo]: choose the Snap to Tangent tool and click on the small circle near point B.
4. Exit the command.
5. Choose Line in the Draw toolbar.
6. In response to; Specify first point: choose the Snap to Tangent tool and click on the large circle near point C.
7. In response to; Specify next point or [Undo]: choose the Snap to Tangent tool and click on the small circle near point D.
9. Exit the command.

4-3

1. Choose Line in the Draw toolbar.
2. In response to; Specify first point: choose the Snap to Tangent tool and click on the large circle near point A.
3. In response to; Specify next point or [Undo]: choose the Snap to Tangent tool and click on the small circle near point D.
5. Exit the command.
6. Choose Line in the Draw toolbar.
7. In response to; Specify first point: choose the Snap to Tangent tool and click on the large circle near point C.
8. In response to; Specify next point or [Undo]: choose the Snap to Tangent tool and click on the small circle near point B.
9. Exit the command.

4-4

1. Turn on ORTHO.
2. Choose the Mirror tool in the Modify toolbar.
3. In response to; Select objects: select the object above.
4. In response to; Select objects: press the Enter key.
5. In response to; Specify first point of mirror line: click about 1/4" to the right of the object.
6. In response to; Specify second point of mirror line: move the cursor vertically and click.
7. In response to; Delete source objects? [Yes/No]: type N and press the Enter key.

4-5

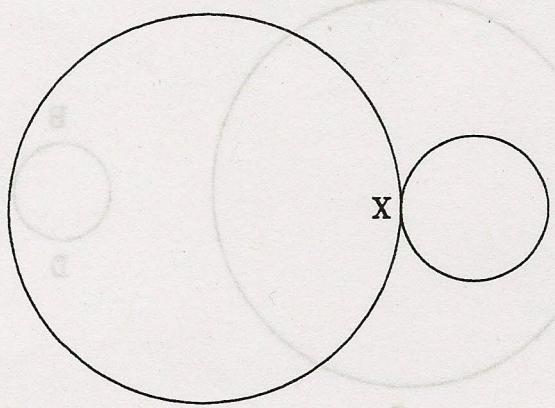
1. Choose the Extend tool in the Modify toolbar.
2. In response to; Select objects: click on line B and press the Enter key.
3. In response to; Select object to extend or shift-select to trim or [Project/Edge/Undo]: click on line A.
4. Exit the command.
5. Choose the Trim tool in the Modify toolbar.
6. In response to; Select objects: click on line A and press the Enter key.
7. In response to; Select object to trim or shift-select to extend or [Project/Edge/Undo]: click near the upper end of line B.
8. Exit the command.

4-6

1. Choose the Array tool in the Modify toolbar.
2. In the Array dialog box, select Rectangular Array.
3. In the Array dialog box, type 4 into Rows.
4. In the Array dialog box, type 3 into Columns.
5. In the Array dialog box, type .5 into Row offset.
6. In the Array dialog box, type .75 into Column offset.
7. In the Array dialog box, click the Select objects button.
8. In response to; Select objects: click on the ellipse and press the Enter key.
9. In the Array dialog box, click the Preview< button.
10. If the image preview appears to be correct, click the Accept button, otherwise, click the Modify button and make the necessary adjustments.

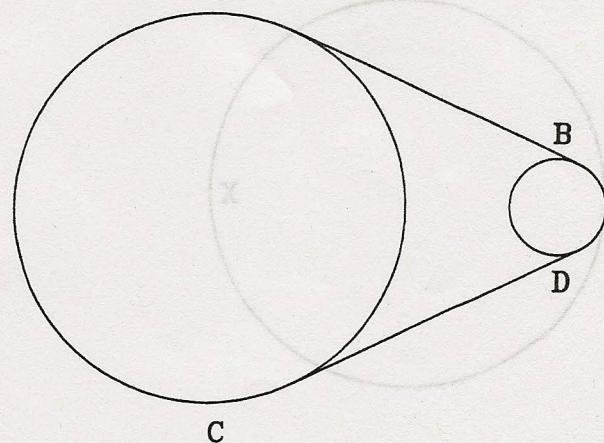
Note: The preview window within the Array dialog box will not show objects overlapping one another.

4-1



Draw a  $3/4"$  circle outside and to the right of the above circle at quadrant X.

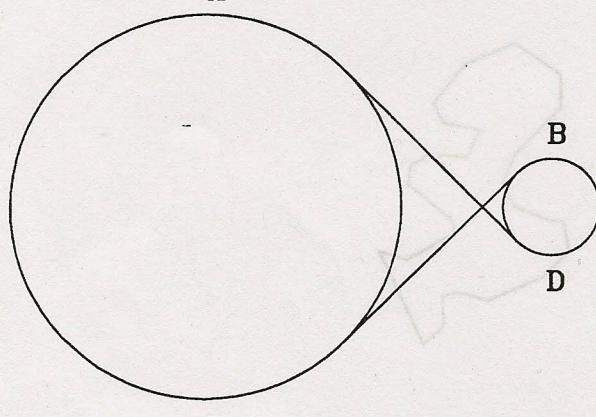
4-2



Draw two tangent lines (non-crossing) between AB and CD.

A

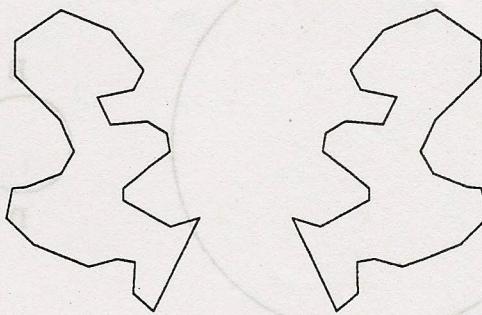
4-3



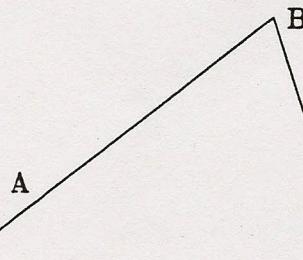
C

Draw two tangent line (crossing) between AB and CD.

4-4

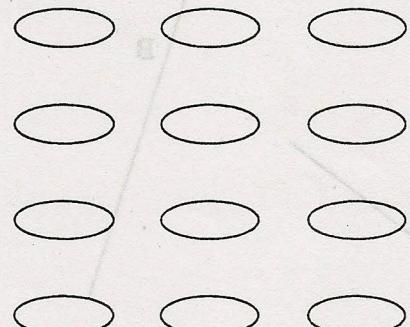


Mirror the above object about the vertical axis.



Extend line A to intersect with line B and trim off the top of line B.

4-5



Array the above object in a 4 up by 3 across pattern ( $0.50" \times 0.75"$ ).