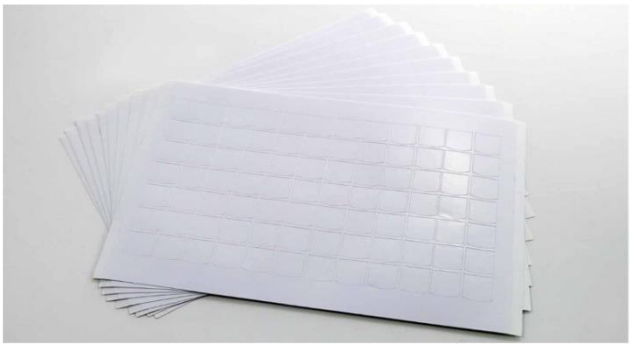
No-Mouse Assignment: AutoCAD Pizza Slice

This project involves creating a pizza slice with pieces of pepperoni, without using the mouse to select or pick whatsoever. Be prepared to present your Pizza Slice and Circle Drawings this Fall. It is highly recommended that you print the AutoCAD shortcuts onto X-Keys for this assignment:

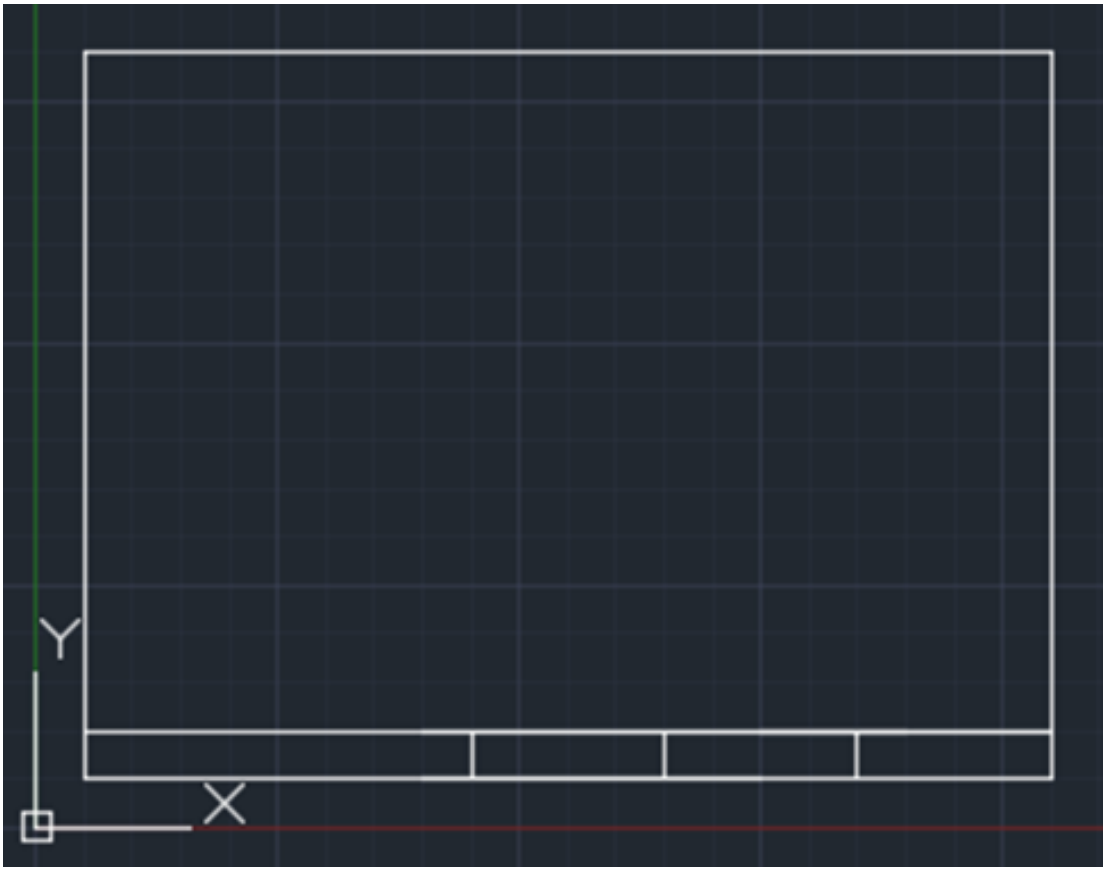


X-keys Single Keys Blank Legend Sheet Set of 10

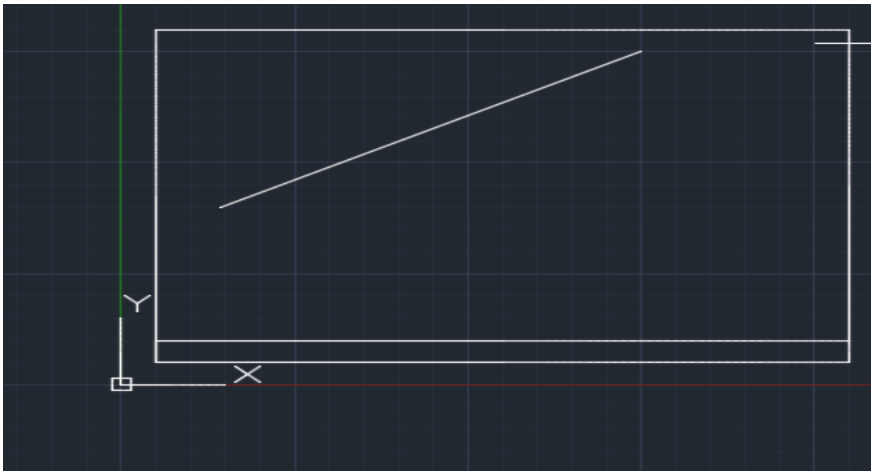
Refer to this link for AutoCAD Shortcuts: https://browardcountyschools-my.sharepoint.com/personal/p00095012_browardschools_com/Documents/Engineering/AutoCAD/AutoCAD_2020_Shortcuts_Guide.pdf

Steps:

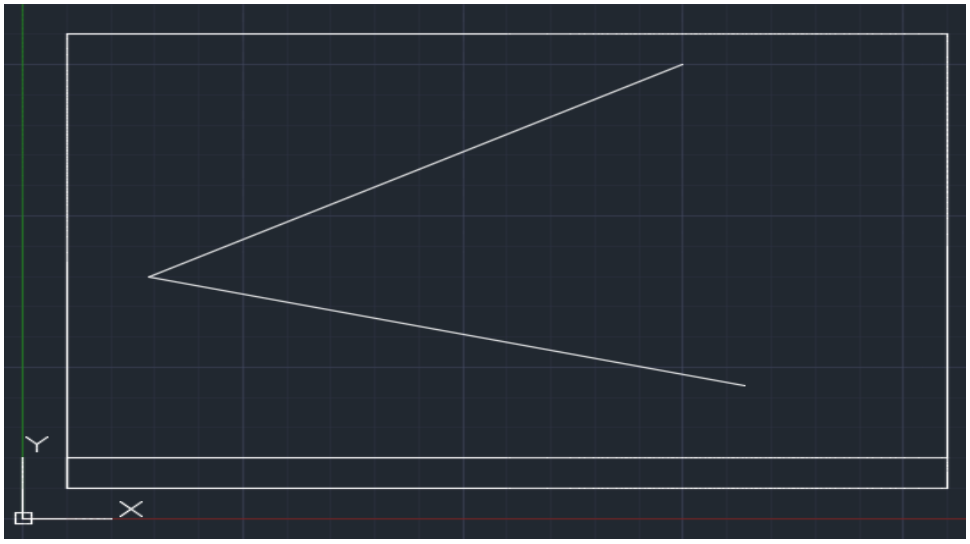
1. Start a line (Command- LINE) at the point (.5, .5), length is 10 and the angle at 0 degrees. Continue line (Command- LINE) at the point (10.5, .5) length 7.5 and the angle at 90 degrees. Continue line (Command- LINE) to the point (10.5, 8) length is 10 and the angle at 0 degrees to the left. Continue line (Command- LINE) to the point (.5, 8) length is 7.5 and the angle is at -90 degrees. Draw a line .5 up vertically from the point (.5, .5). Draw a .5 vertically line four inches from the point (.5, .5). Draw another line .5 vertically from the previous point, 2 inches away, and repeat twice more.



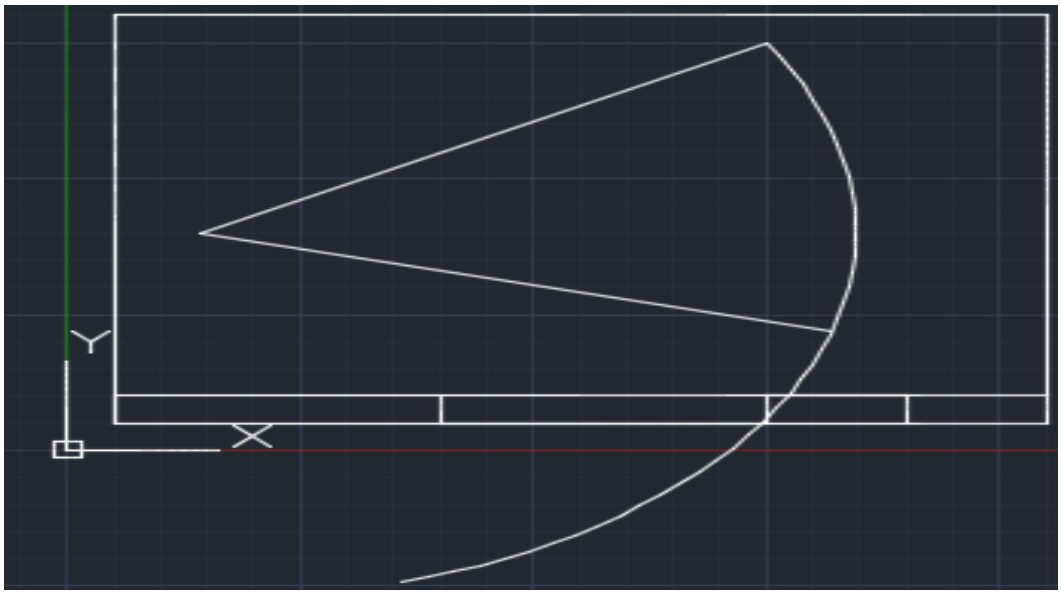
2. Begin the line tool by typing LINE in the command line, the starting point is (7.5, 7.5) and select the length of 7 inches, and press tab to enter the angle of 150 in respect to the horizontal line above it.



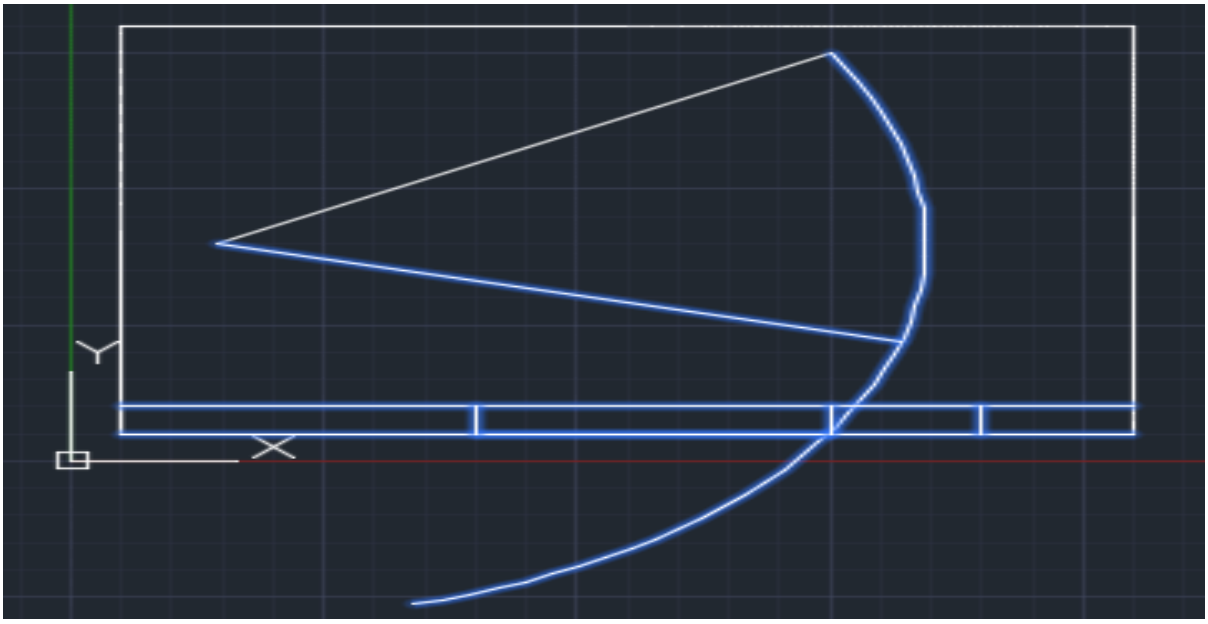
3. Begin the line tool again in the command bar LINE select previous for the starting point, along with 7 for the length and (hold tab) an angle of 15.



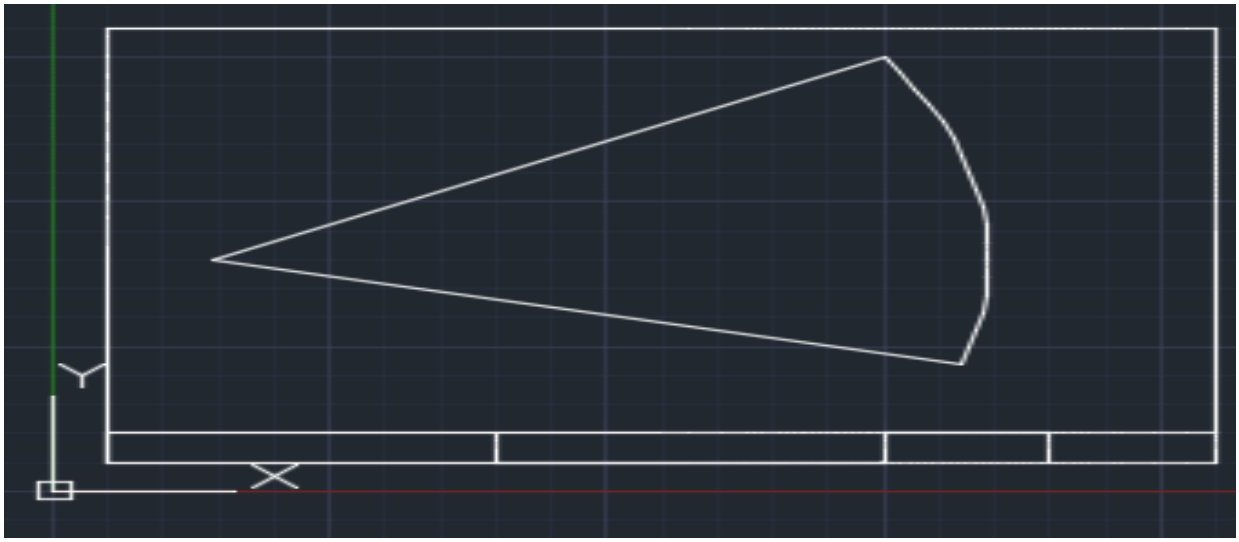
4. Begin the ARC tool in the command with the starting points (8.1993,2.1883) and the ending point of (7.5,7.5) with the angle 135.



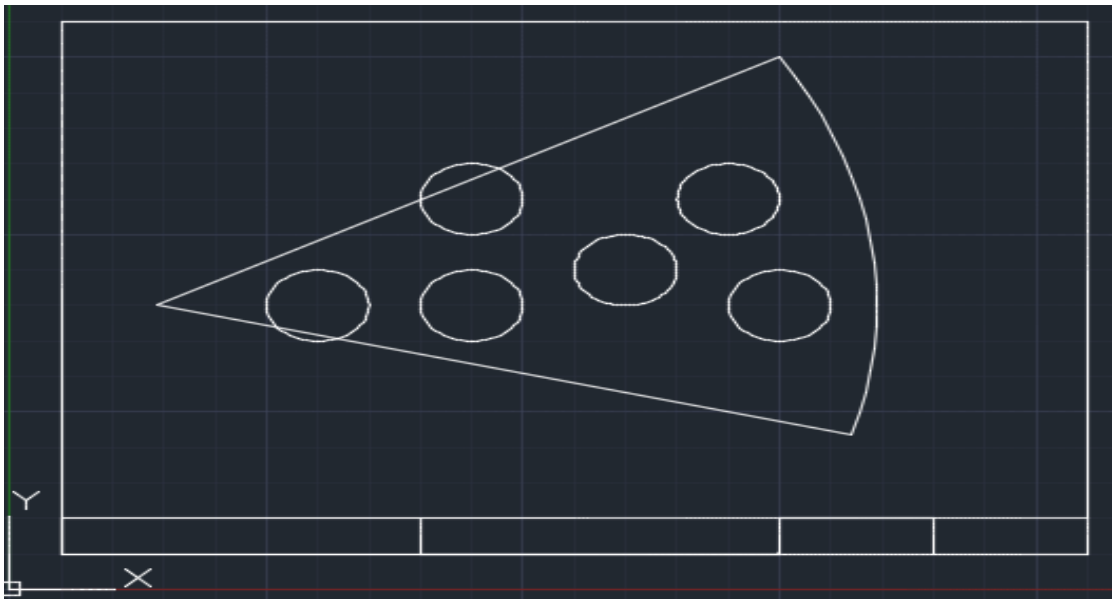
5. Enter the TRIM command into the command line, and select the following segments shown in the screenshot



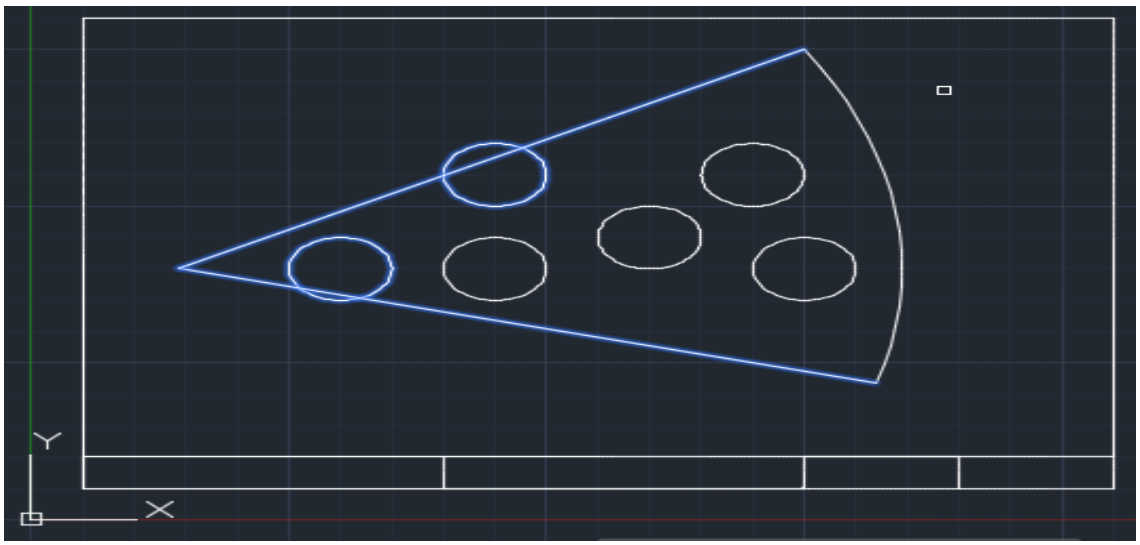
6. The trim the segments by right clicking and then left click select the following segments.



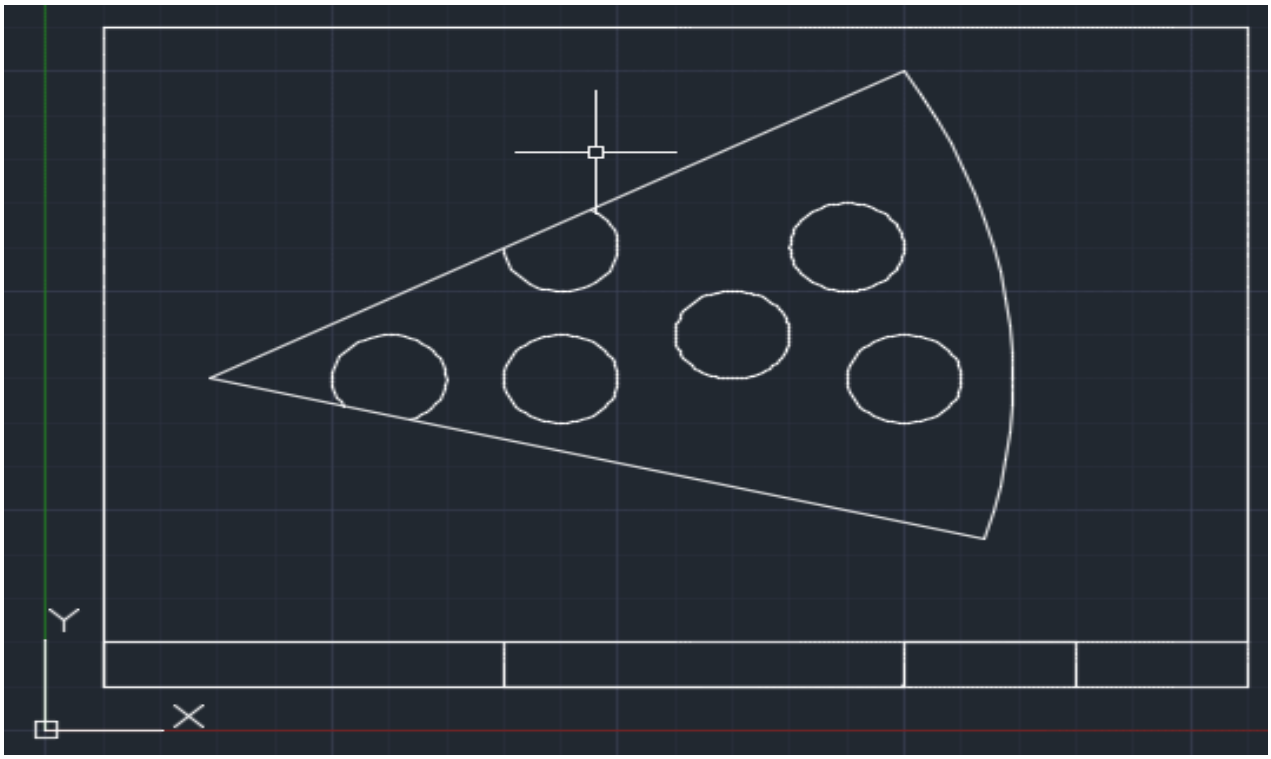
7. Start the CIRCLE command and make six circles all with a .5 inch radius, one at each of the following points: (3, 4), (4.5, 4), (6, 4.5), (4.5, 5.5), (7,5.5), and (7.5,4).



8. Start the TRIM command in the command line by typing TRIM and select the following segments (the circles that hang over the pizza, and the two main lines intersecting them)



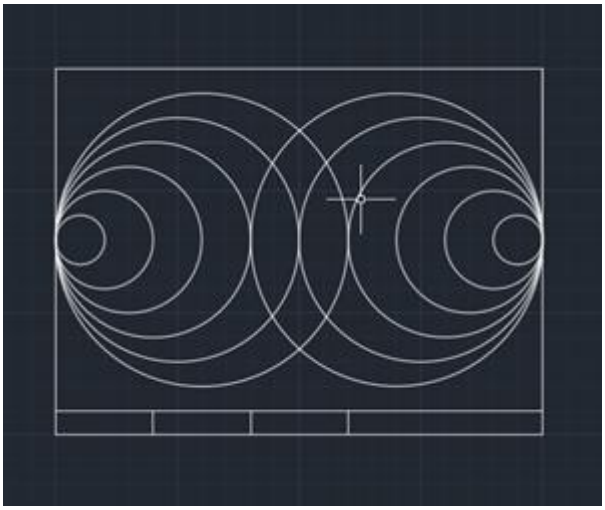
9. After selecting the objects with your mouse, right click and then left click the segments of the circle with hang over the two main lines so your product looks like this.



No Mouse Assignment# 2: Circle Drawing

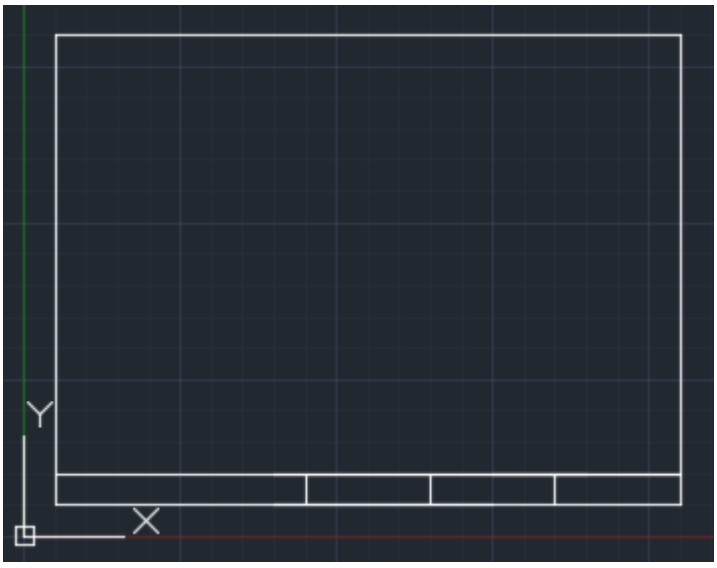
Introduction:

This drawing involves using the circle and the mirror tools. These circles are on the same line and on opposite sides of the paper, horizontally.

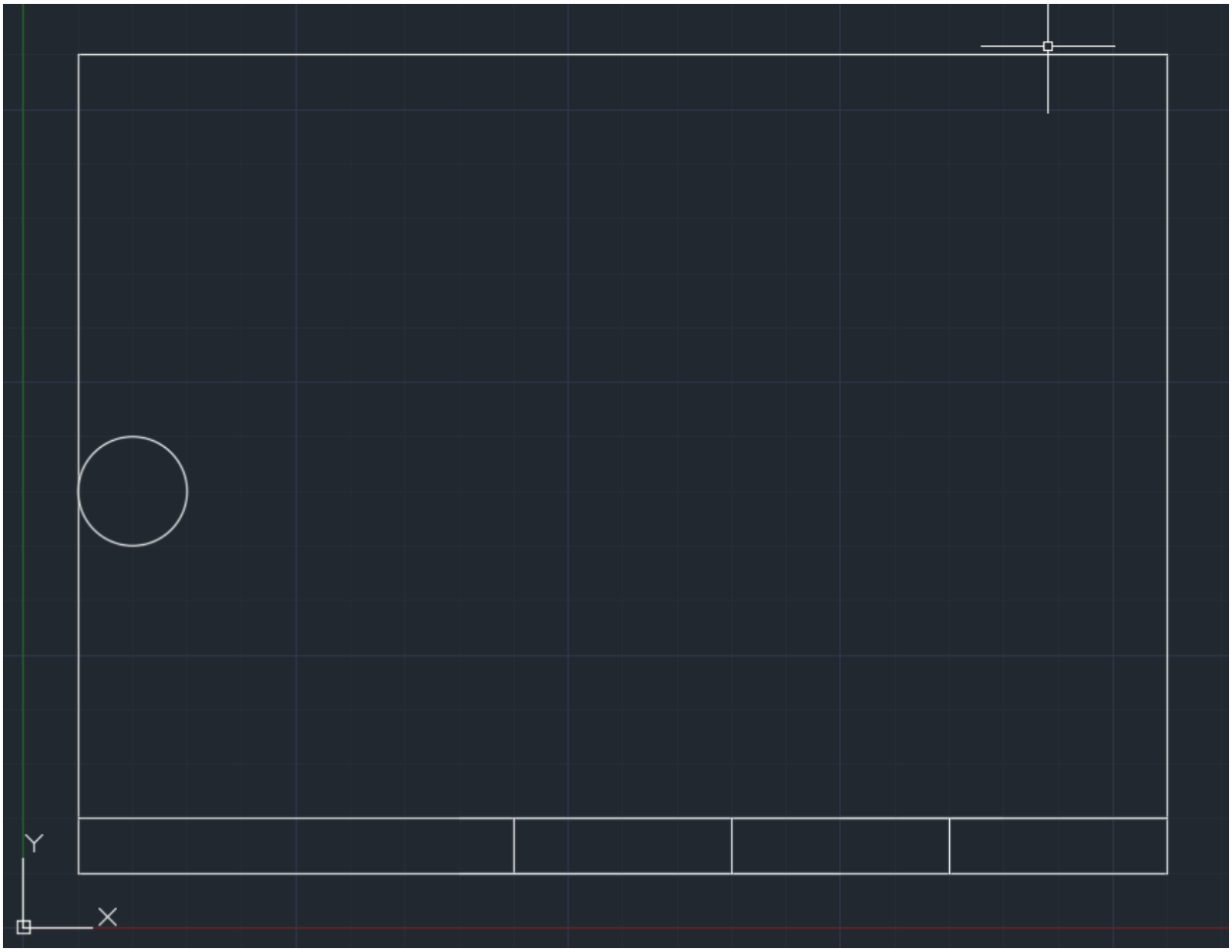


Steps:

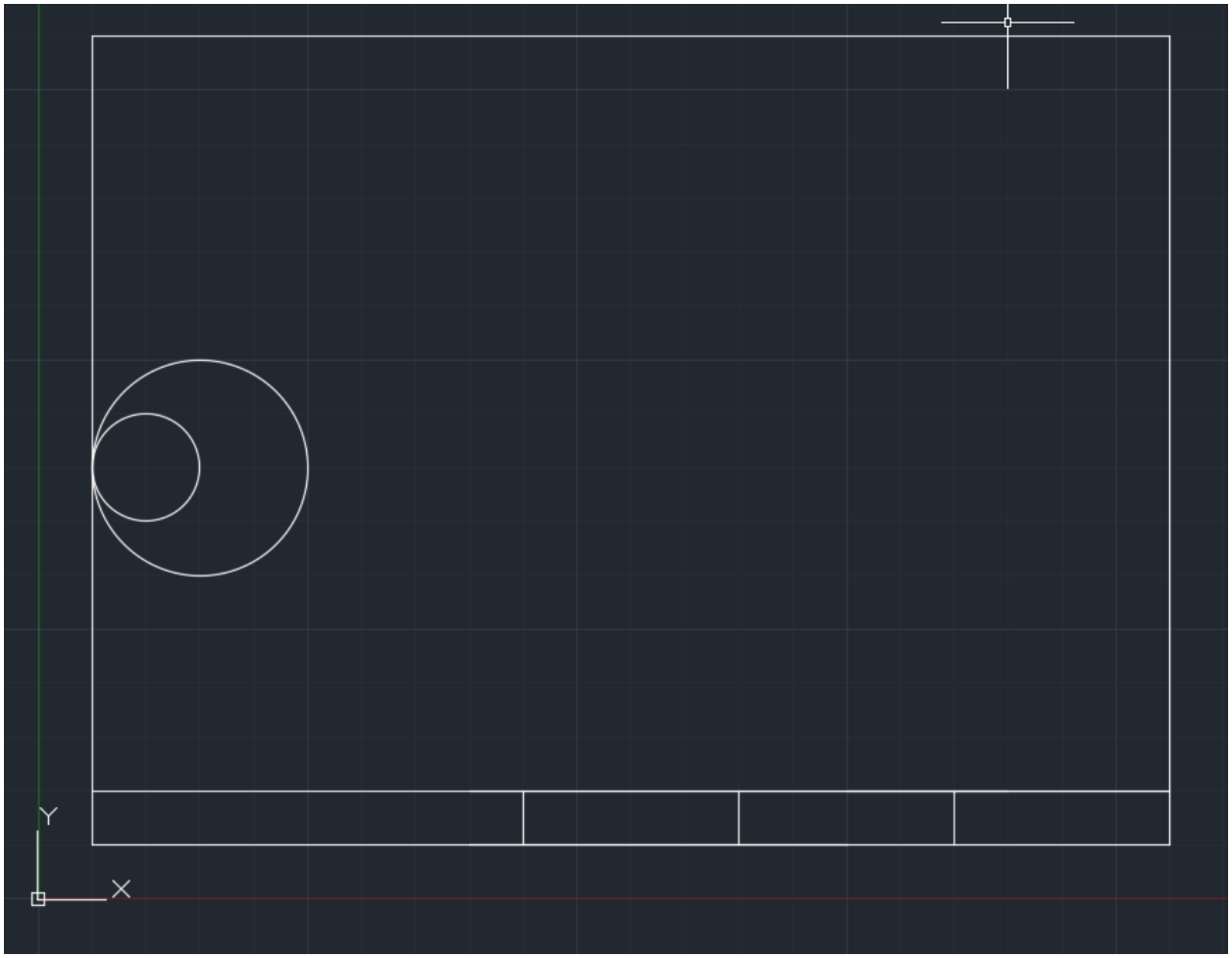
1. Start a line (Command- LINE) at the point (.5, .5), length is 10 and the angle at 0 degrees. Continue line (Command- LINE) at the point (10.5, .5) length 7.5 and the angle at 90 degrees. Continue line (Command- LINE) to the point (10.5, 8) length is 10 and the angle at 0 degrees to the left. Continue line (Command- LINE) to the point (.5, 8) length is 7.5 and the angle is at -90 degrees. Draw a line .5 up vertically from the point (.5, .5). Draw a .5 vertically line four inches from the point (.5, .5). Draw another line .5 vertically from the previous point, 2 inches away, and repeat twice more.



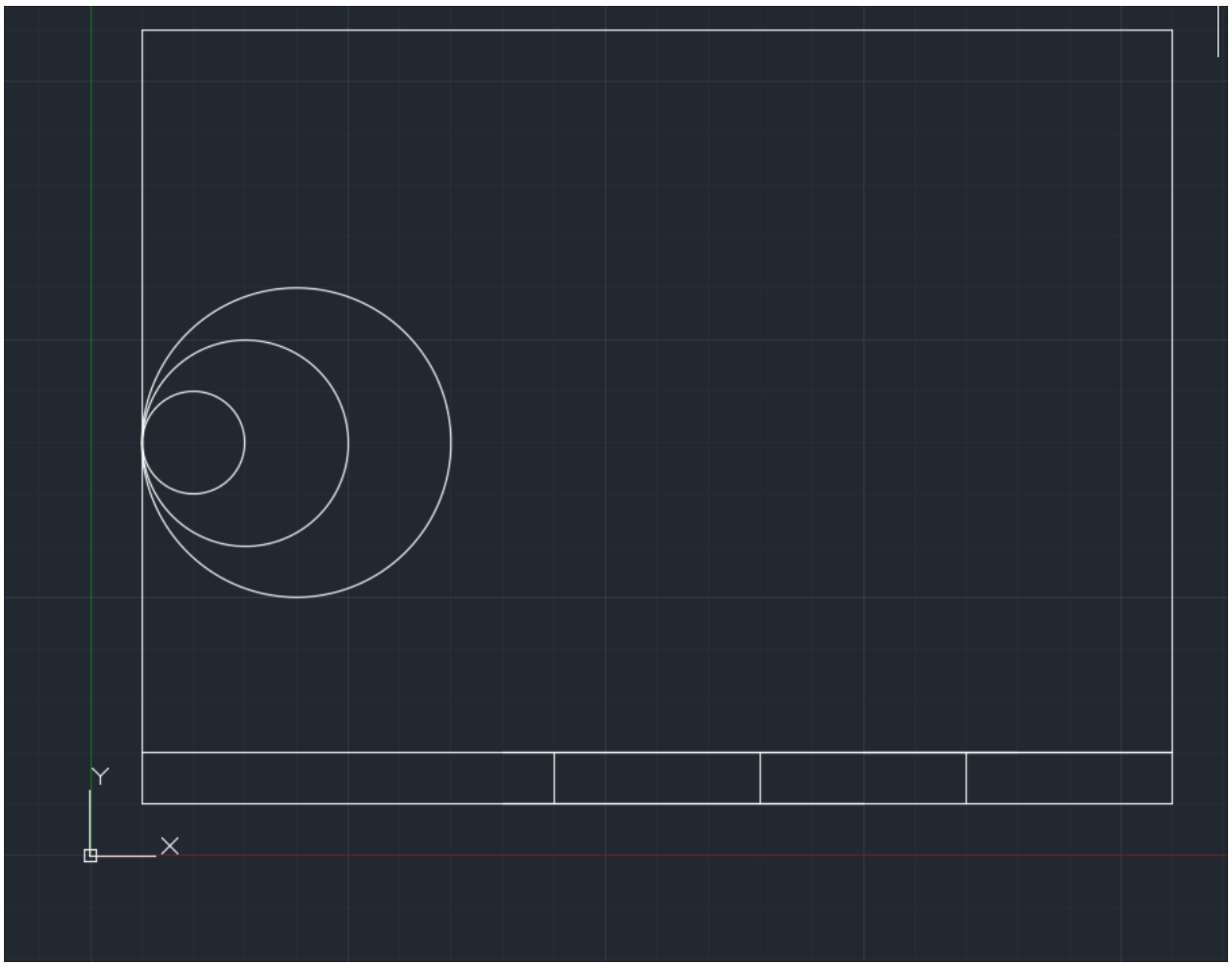
2. Command tool (Circle in command box) with a center of (1,4.5) in reference to the origin and radius of .5



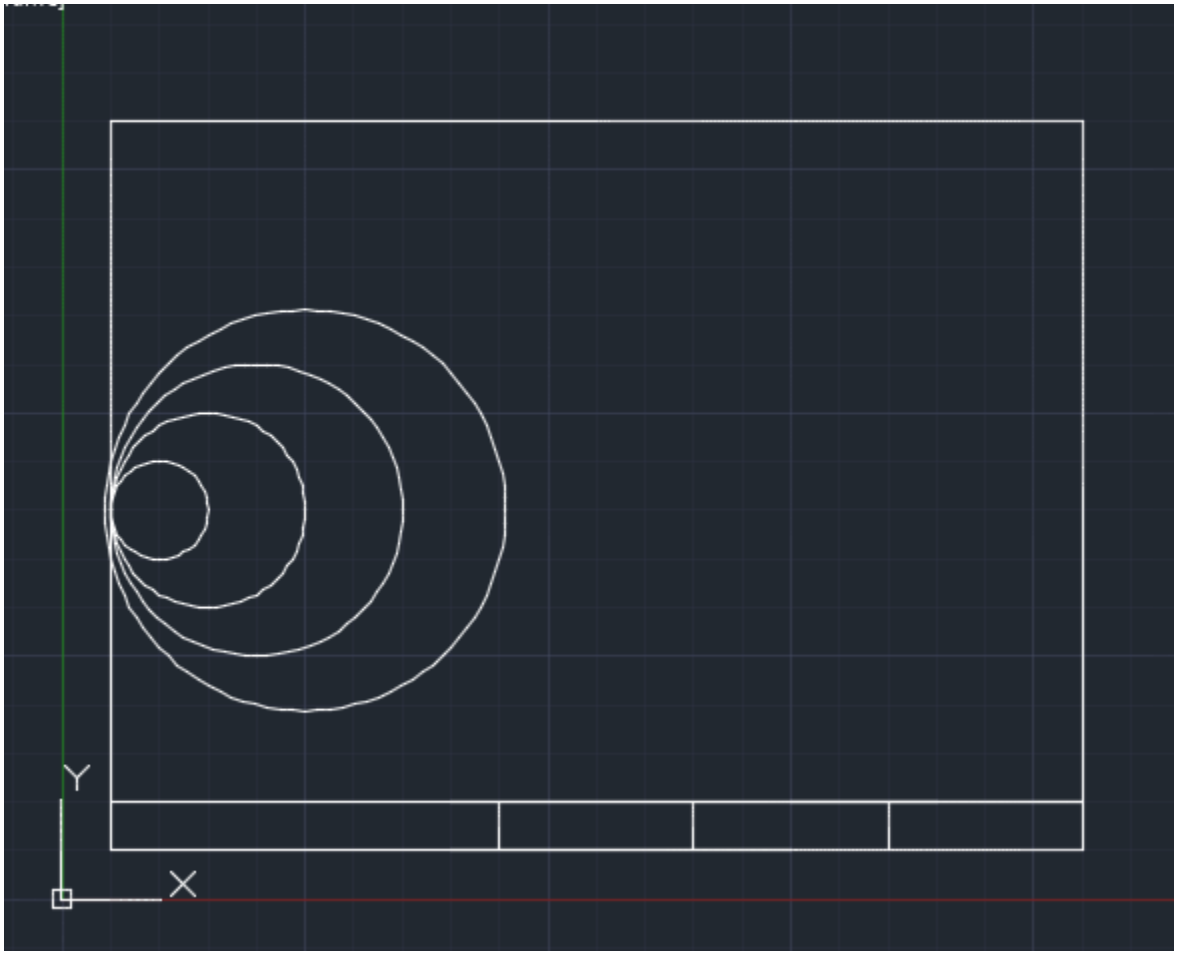
3. Draw a second circle using the CIRCLE command in the command line, the center is at the point (1.5, 4.5) and the radius being 1 inch.



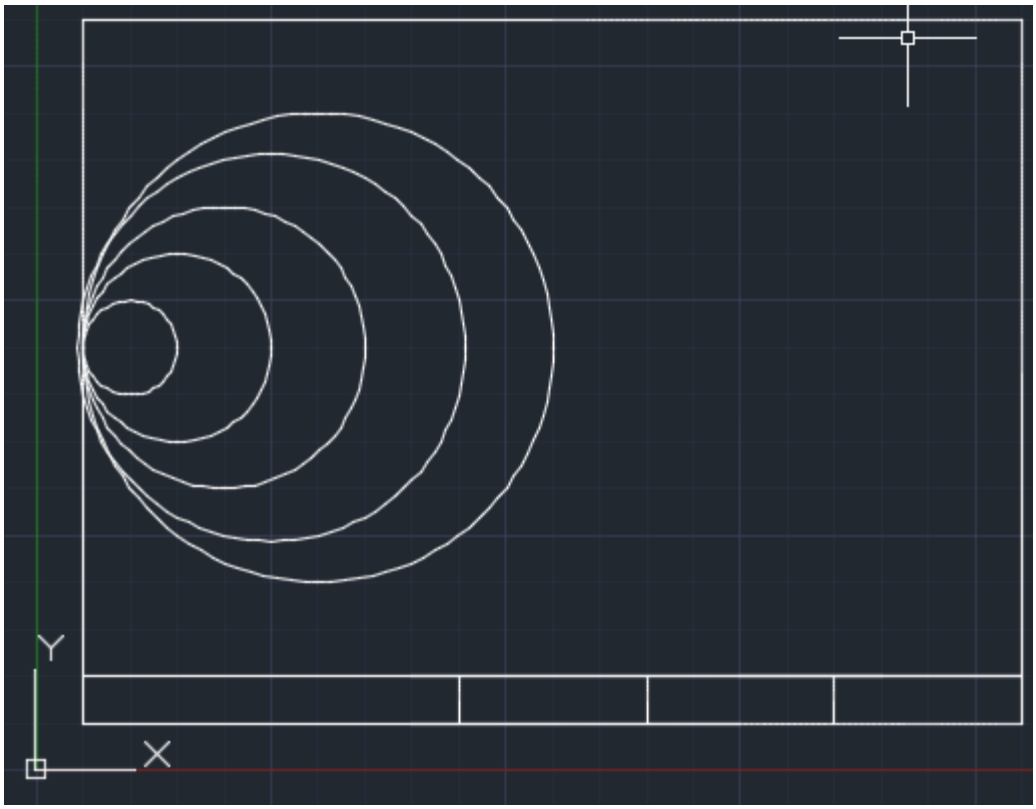
4. Draw a third circle using the CIRCLE command in the command line with the center as (2,4.5) and the radius being 1.5 inches.



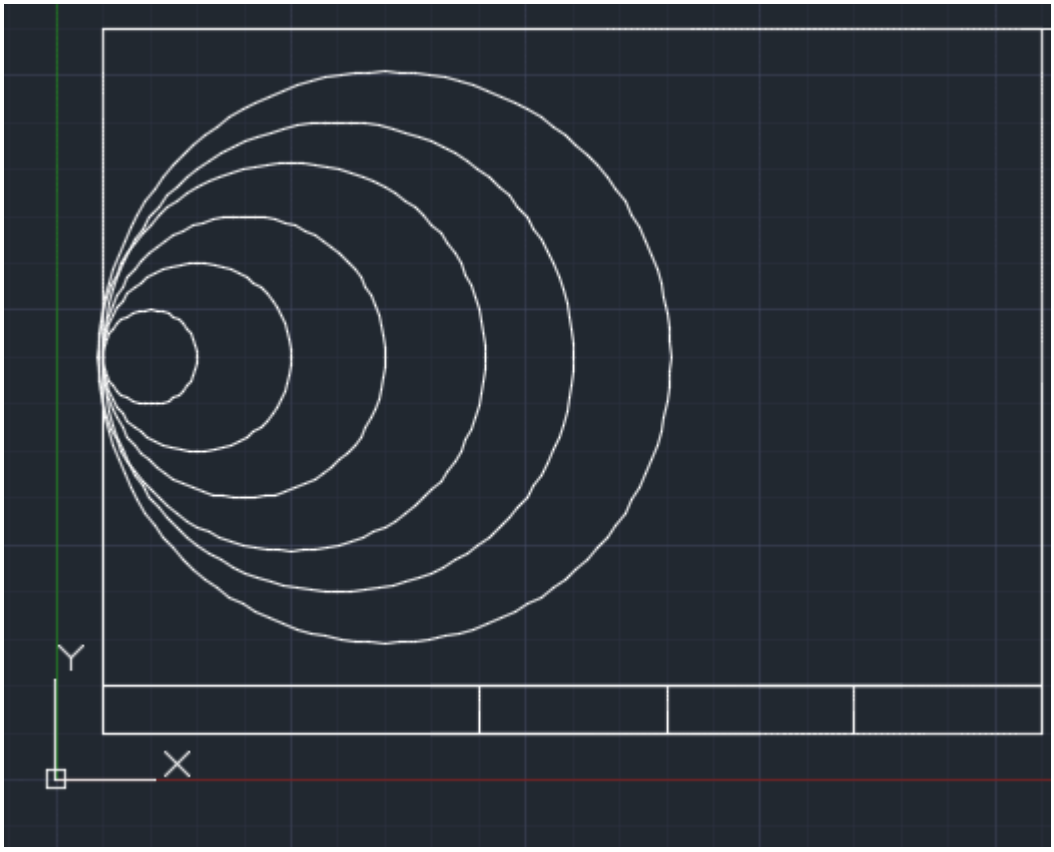
5. Draw a fourth circle using the CIRCLE command in the command line with the center at (2.5, 4.5) and the radius is 2 inches.



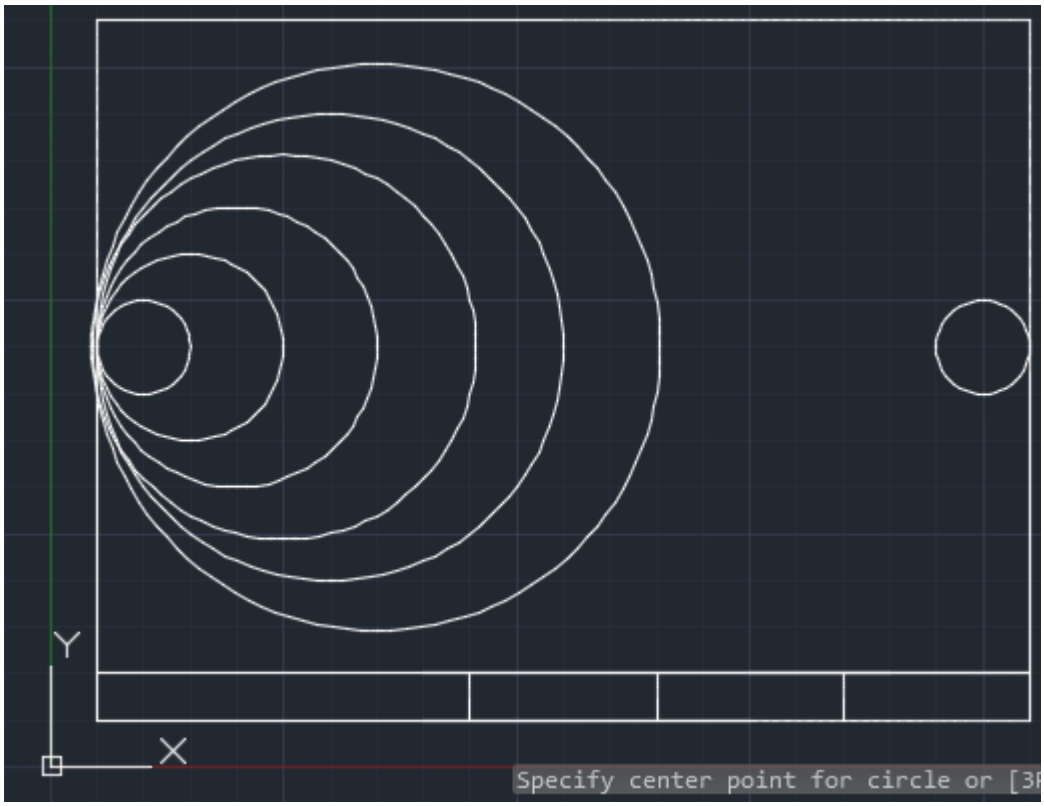
6. Draw a fifth circle using CIRCLE command in the command line with a center at (3, 4.5) and the radius being 2.5 inches.



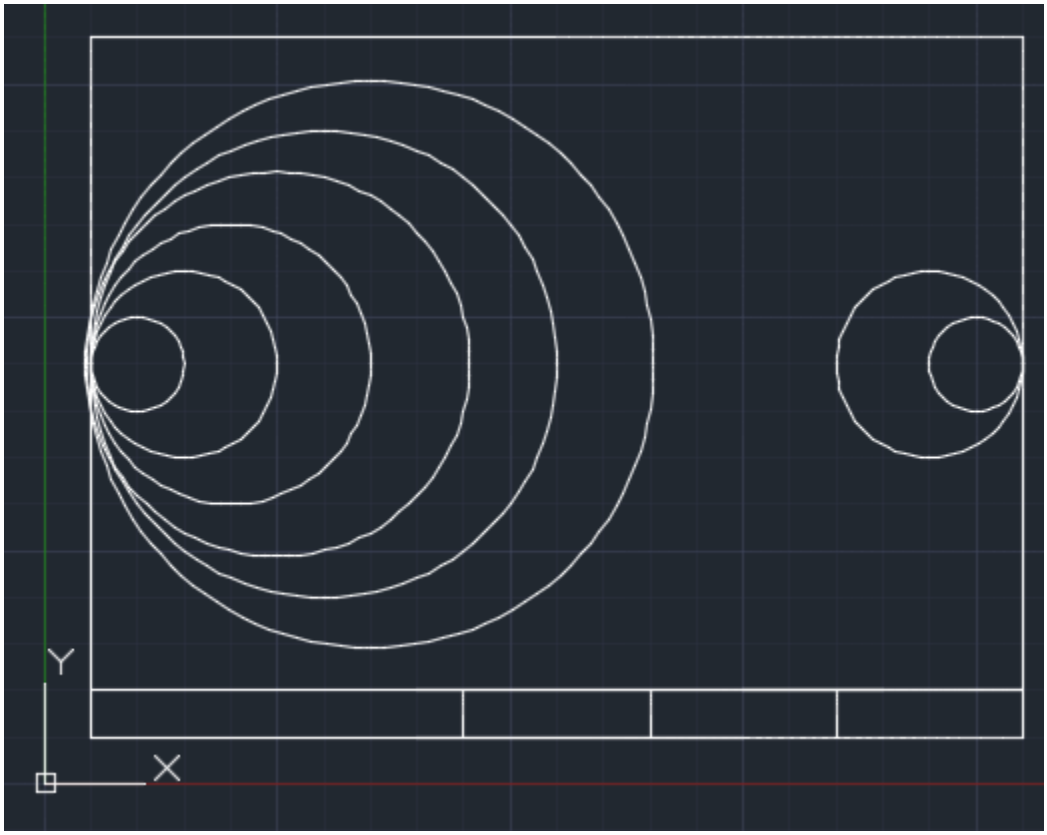
7. Draw a sixth circle using the CIRCLE command in the command line with a center of (3.5, 4.5) and a radius of 3 inches.



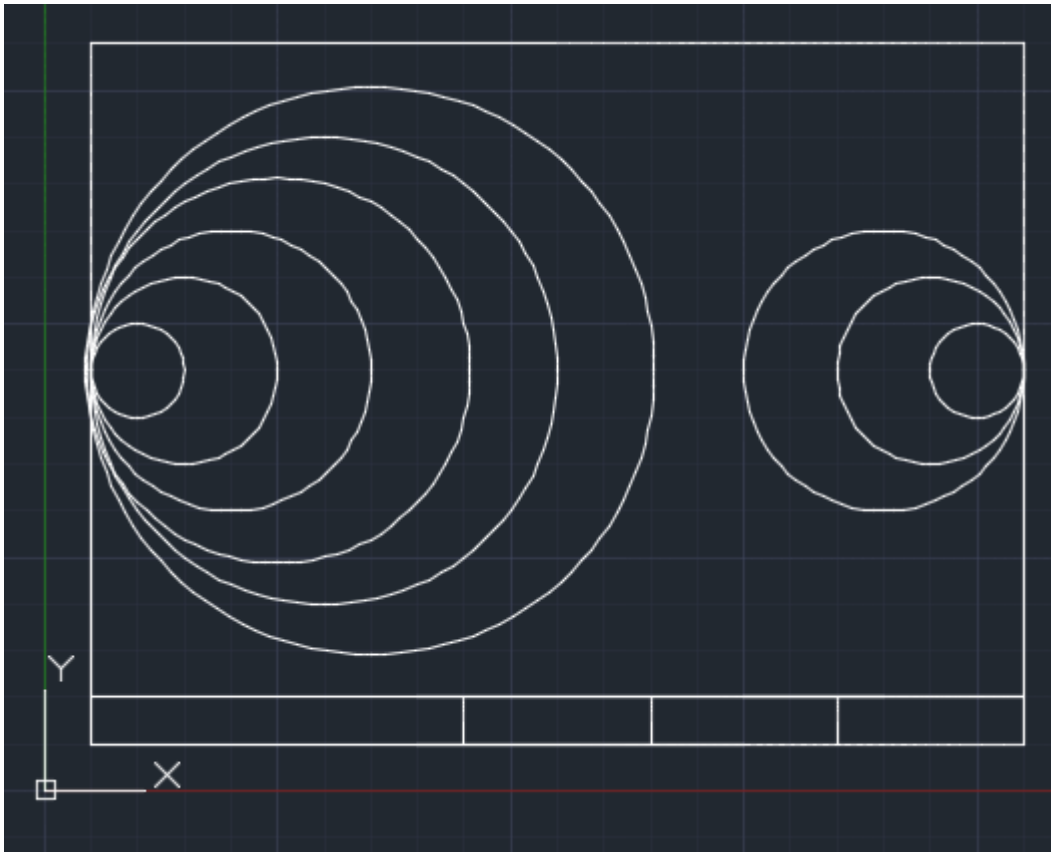
8. Create circle using the command tool at the center (10, 4.5) with a radius of .5 using the CIRCLE command in the command line.



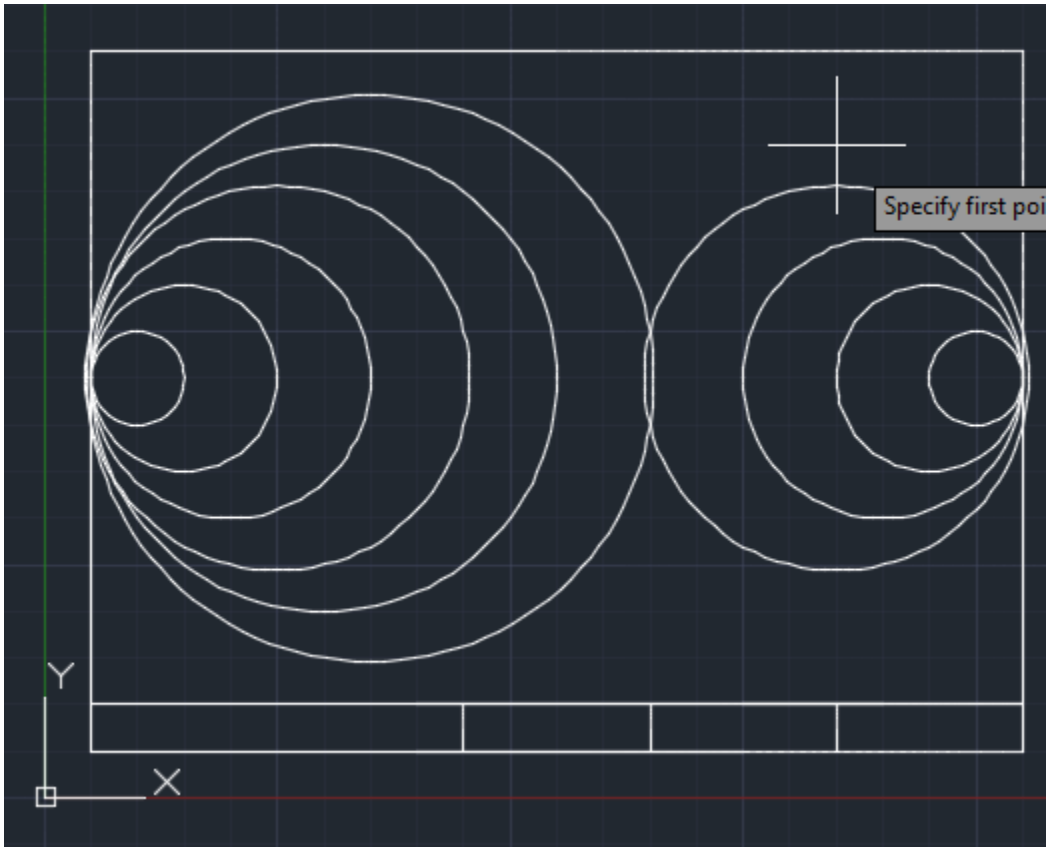
9. Create a circle using the command tool with the center (9.5, 4.5) with a radius of 1 using the CIRCLE command in the command line.



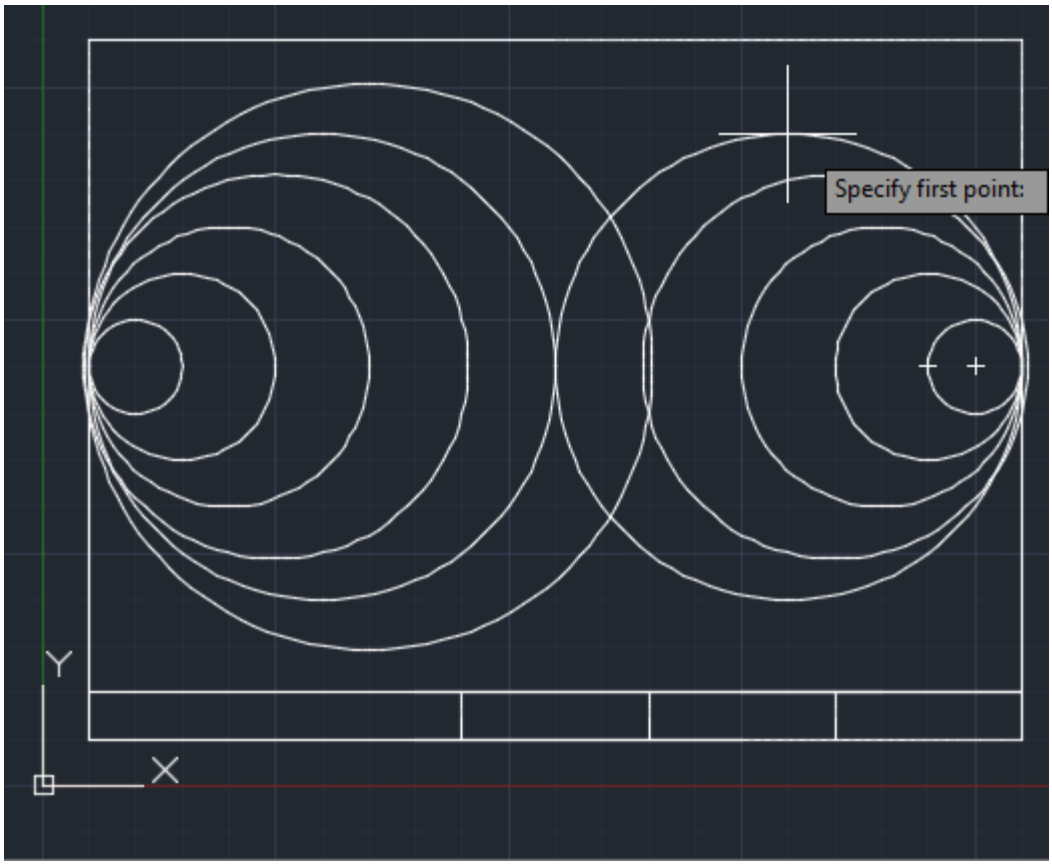
10. Create a circle using the command tool with the center (9, 4.5) with a radius of 1.5 using the CIRCLE command in the command line.



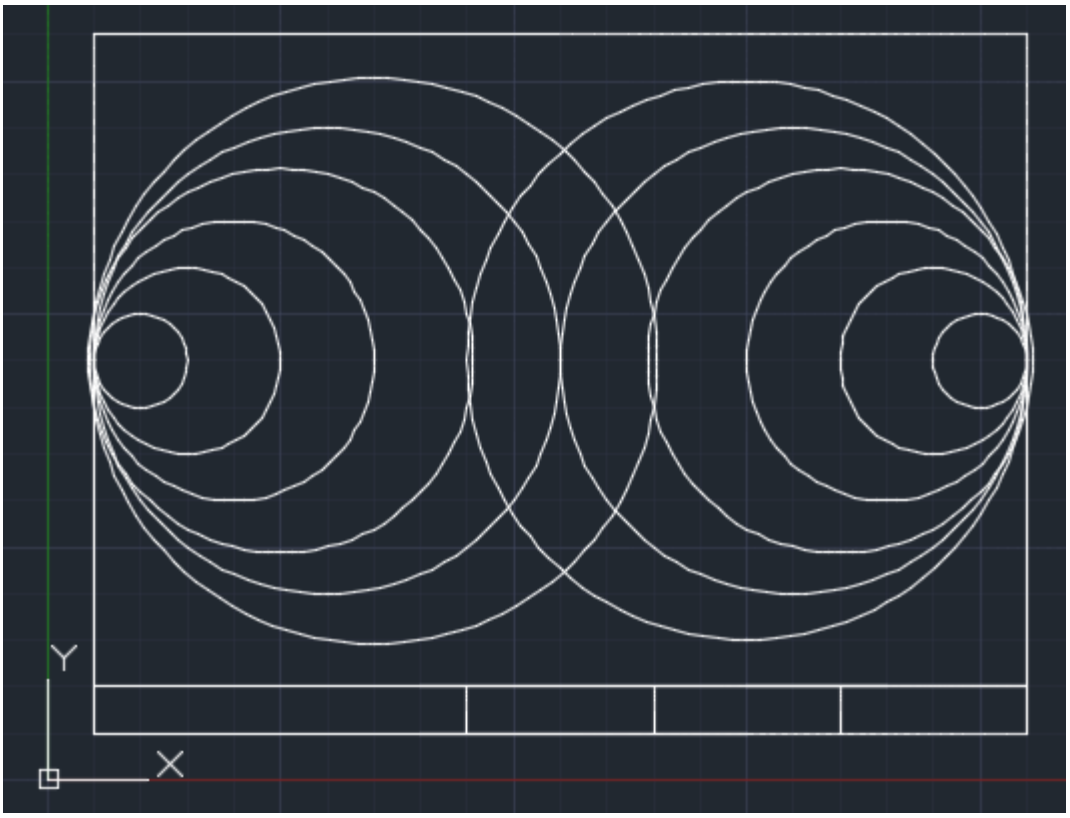
11. Create a circle using the command line with a center by typing in CIRCLE into the command line with a center of (8.5, 4.5) and a radius of 2.



12. Create a circle by typing CIRCLE into the command line with a center of (8, 4.5) and a radius of 2.5 inches.

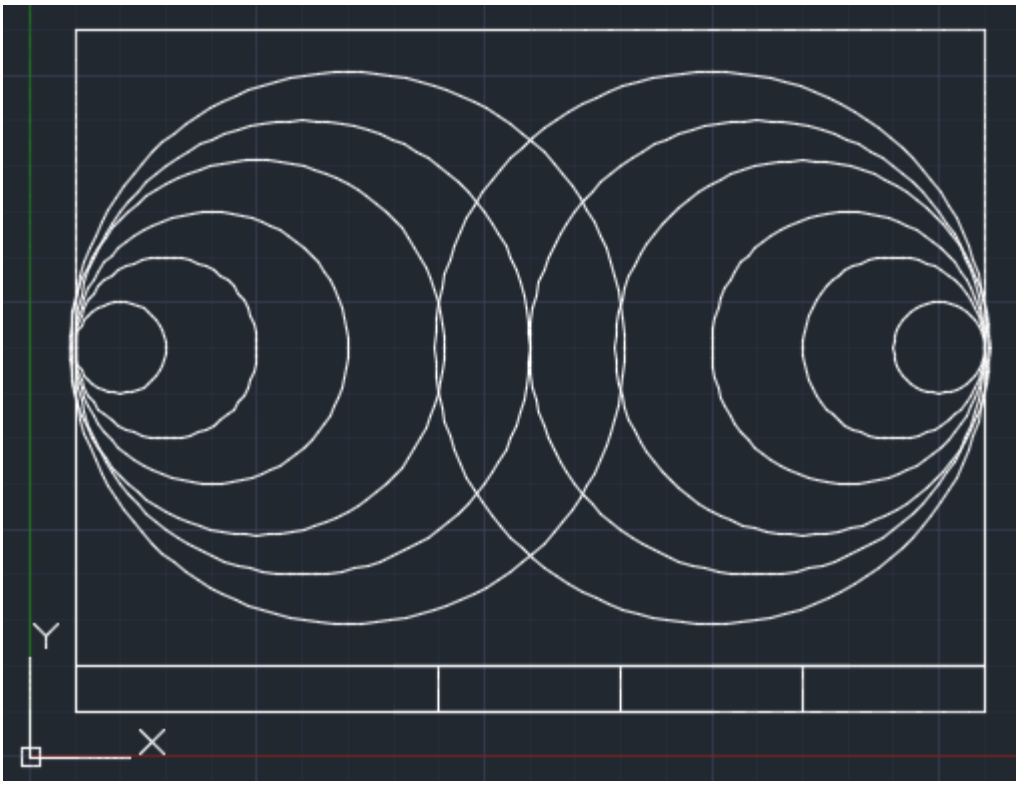


13. Create a circle by typing CIRCLE into the command line with a center of (7.5, 4.5) and a radius of 3 inches



Another option opposed to steps 8-12:

8. Use the MIRROR tool and the mouse click on the point and type in LAST when prompted for selected objects. Click the point (5.5, 1.5) and (5.5, 7.5)


Y
X