Midpoint Circle Drawing Algorithm :

Step 1: Start .

Step 2: Input the radius r of the circle and the center coordinates (xc, yc).

Step 3: Initialize x = 0 and y = r.

Step 4: Initialize the decision parameter p = 1 − r.

Step 5: Plot the initial point (x, y) and its 8 symmetric points using circle symmetry.

Step 6: Repeat the following steps while x < y:

Step 7: Increment x by 1.

Step 8: If the decision parameter p < 0, then update p = p + 2x + 1.

Step 9: Else, decrement y by 1 and update p = p + 2(x − y) + 1.

Step 10: Plot the new point (x, y) and its 8 symmetric points.

Step 11: Continue the process until x ≥ y.

Step 12: Stop.