Midpoint Circle Drawing Algorithm

- 1. Input (x_c, y_c) , radius (r).
- 2. p = 1 r //initial parameter
- 3. xes = [], yes = []
- 4. Call function \rightarrow symmetry plotter to append first point (0, r) to the list.
- 5. while x < y:

$$x = x + 1$$

if $p < 0$:
 $p = p + 2x + 1$
else:
 $y = y - 1$
 $p = p + 2(x - y) + 1$

- 6. Call symmetry plotter to append new (x, y)
- 7. Symmetry plotter function (xes, yes, x, y, x_c , y_c)