$$A_1$$
 A_2
 A_1
 A_2
 A_3
 A_4

$$A_{1} = \frac{\pi r^{2}}{4} = \frac{\pi}{4}$$

$$A_{2} = |\cdot| - A_{1} = |-\frac{\pi}{4}|$$

x = uniform(0,1)y= uni form (0,1)

of total possible events = Area AI Area A, + Area Az

if x2+ y2 < (2;

hits += 1

return (hits/throws)&

