$P(\theta) = \begin{cases} x_0 = \sin^2 \theta \\ x_{n+4} = 4x_n - 4x_n^2 \end{cases}$ · entonces, $x_n = \sin^2(2^n\theta)$, demostremos $x_{n+1} = \sin^2(2^{n+1}\theta)$ $7n = \sin^2(2^n\theta) - 7n + 1 = 4 \times n + 4(xn)^2$ $7n+1 = 4\sin^{2}(2^{n}\theta) - 4\sin^{4}(2^{n}\theta)$ $= 4\sin^{2}(2^{n}\theta)(1 - \sin^{2}(2^{n}\theta))$ $= 4\sin^{2}(2^{n}\theta)(\cos^{2}(2^{n}\theta))$ Angulo doble sin (24) = 25in (4) cos (4) 2n+1 = sin2 (2n+10) Caso base: n=0, $x_0 = \sin^2(2^0\theta)$ $= \sin^2(\theta)$ (Functiona) | n=1, $x_1 = \sin(2\theta)$