$$G(x) = 4 \times (1-x) = (2-2(05\theta)(1-z+z(05\theta))$$

$$= (1 - (050)(1 + (050)) = 1 - (05^{2}\theta)$$

So. by fixed pt iteration

So. by fixed pt Hermorove

$$y_{n+1} = G(x_n) \Rightarrow (05(\Theta_{n+1}) = \cos(2\Theta_n)) \text{ only, way true}$$

 $\Rightarrow \Theta_{n+1} = 2\Theta_n = 1 \text{ this onale}'$

=> On+1 = 20n so iterating doubles angle!

What Doiteneraries look like interms of . B?

K=0

K=2.

PLRICTIU

So the length of a sobinterval < T/2 k on level k.