$2-$ *Calculating theoritecal num of iterations with LIBoffficemath*

$x^4-3x^2-3=0-$ *is the function* ϵ *is* 10^{-2} *also* p_0 *our educated guess is* 1

$[1,2]$ *tanim araligi sürekli ve yakinlasiyor .*

$$p_o \in [1,2]$$

$p_n = g(p_n - 1)$ *denklemi ile cozecegiz*

$$step\,1 - x^4 = 3x^2 + 3$$

$$step\,2 - x = (3+3x^2)^{(1/4)}$$

$step\,3 -$ *the value of iterations listed* $\in$ *here*

$$x = (3+3(1=p_0)^{(1/4)}),\ x = 1{,}565085$$

$$iteration-0\ \ x = 1.000000\ \ x = (3+3(1=p_0)^{(1/4)})$$

$$iteration-1\ \ x = 1{,}565085\ \ x = (3+3(1{,}565085)^{(1/4)})$$

$$iteration-2\ \ x = 1{,}793573\ \ x = (3+3(1{,}793573=p_2)^{(1/4)})$$

$$iteration-3\ \ x = 1{,}885944,\ \ x = (3+3(1{,}885944=p_3)^{(1/4)})$$

$$iteration-4\ \ x = 1{,}922848\ \ x = (3+3(1{,}922848=p_4)^{(1/4)})$$

$$iteration-5\ \ x = 1{,}937508\ \ x = (3+3(1{,}9337508=p_5)^{(1/4)})$$

5 *iteration total bulmak icin koku*