Sagasure 5  $P(x) = ax^3 + bx^2$ ,  $a = 4 \pm 10^3$ ,  $b = -4 \pm 10^3$ Xo- generue => P(xo)=0  $(a+aa)(x+ax)^{3}+(b+ab)(x+ax)^{2}=0$ (a+4a)(x3+3x2ax)+(6+6b)(x2+exax)=0 ax3+bx+ Ax(3ax2+2bx0)+ Dax3+ Dbx6=0  $\Delta \chi \leq \frac{|\Delta \alpha \chi_0^3| + |\Delta b \chi_0^2|}{|3\alpha \chi_0^2 + 2b \chi_0|} \leq \frac{|\chi_0^2| + |\chi_0|}{|3\alpha \chi_0 + 2b|} \Delta \alpha$  $P(x) = x^3 - 4x^2 = x^2(x - 4) = 7 x_1 = 0, x_2 = 4$ DK1= 0  $\Delta V_2 = \frac{4^2 + 4}{|3.4 + 9.49|} \Delta \alpha = \frac{20}{4} \Delta \alpha = 5 \Delta \alpha = 5.15^3$ Bagosine 6:  $\{x_n\}: x_{n+1} - 5x_n = 4 , \Delta x = 10^6$  $x_{n+1} = 5x_n + 4 = 5(5x_{n-1} + 4) + 4$ X1=5X0+4  $\chi_2 = 5(5\chi_0 + 4) + 4 = 5^2\chi_0 + 5.4 + 4$  $\chi_3 = 5 \chi_2 + 4 = 5(5^2 \chi_0 + 5.4 + 4) + 4 = 5^3 \chi_0 + 5^2 4 + 5.4 + 4$  $\chi_{n} = 5^{n} \chi_{0} + 4 \cdot \sum_{i=1}^{n} 5^{i} = 5^{n} \chi_{0} + 4 \cdot \frac{1 - 5^{n}}{1 - 5} = 5^{n} \chi_{0} + 5^{n} - 1 = 5^{n} (\chi_{0} + 1) - 1$  $\chi_{n} = 5^{n} (\chi_{o} + 1) - 1$  $\chi_n + \Delta \chi_n = 5^n (\chi_0 + \Delta \chi_0 + 1) - 1$ 14-51X

non xo=-1 xn ne dygyt paern=> nevalence otherme dyget beern & falburai norpensoran.