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7) El método de convergencia acelerada Scaplica a una Sucesión por medio de: 6=0.2 y P=0.6 para obterer P=0.65 P=?

$$P_{2}^{(c)} = Steller g(x) = \frac{3}{6}x^{1} = \frac{1}{9} P_{0} = 1$$

$$\frac{x_{1} + P}{x_{1} - P} = \frac{x_{1} + E - P}{x_{1} + 1 - P} \rightarrow \frac{P_{1} - P}{P_{0} - P} = \frac{P_{2} - P^{2}}{P_{1} - P}$$

$$(P_{1} - P)^{2} = (0.6 - 0.65)(0.8 - 0.65) \rightarrow (P_{1} - P)^{2} = 0.0225 \rightarrow P_{1} - P_{2} - 0.15$$

$$P_{1} = P + 0.15 \rightarrow P_{1} = 0.50$$

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2) Él valus de $|z|^{2}$ par steddensen y la dimensió $g(x) = 3\sqrt{6x^{7}}$; $p_0 = 1$ $g(x) = 3\sqrt{6x^{7}}$; $p_0 = 1$; $\chi_1 = f(1) = 3\sqrt{6}$; $f_2 = f(3\sqrt{6}) = 3\sqrt{63\sqrt{6}} = f(1) = 1/617121$ $\chi_3 = \chi_0 - \frac{(\chi_1 - \chi_0)}{\chi_2 - 2\chi_1 + \chi_0} = 1 - \frac{(1/617121 - 1)^2}{2\chi_1 + 40^5 - 2(1/817121) + 1}$

X3 = 2601793 -> fa, 601743) = 2465 963

2465963 opanie

3) Si seutuluta un polmonio de lagrage de grado 3 para aproamar f(1.2); (1.1, 1.21), (1.3, 1.69), (1.4, 1.96), (1.7, 2.89) el valor de le es:? Lz=-0,555556

$$P(x) = \frac{(x-x_1)(x-x_2)(x-x_3)}{(x_0-x_1)(x_0-x_3)} f(x_0)$$

0,55556 Open b 4) blevehurate x² et el polaramode layrage de segudo grado que se construye cur la Jour vivir Jix = J1+x; xo=0; x=1; x=3

$$\begin{cases} (x) = (x-x_1)(x-x_2) \\ (x_0-x_1)(x_0-x_1) \end{cases} f(x_0) + \frac{(x-x_0)(x-x_2)}{(x_1-x_0)(x_1-x_1)} f(x_1) + \frac{(x-x_0)(x-x_1)}{(x_1-x_0)(x_1-x_1)} f(x_2) \\ \frac{(x_1)(x-3)}{(0-1)(0-3)} \frac{f(0)}{3} + \frac{(x-0)(x-3)}{(1-0)(1-3)} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{(1-0)(1-3)} \frac{f(0)}{3} \\ \frac{(x-1)(x-3)}{3} \frac{f(0)}{3} + \frac{(x-0)(x-3)}{3} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-3)}{3} \frac{f(0)}{3} + \frac{(x-0)(x-3)}{3} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-3)}{3} \frac{f(0)}{3} + \frac{(x-0)(x-3)}{3} \frac{f(0)}{6} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-3)}{3} \frac{f(0)}{3} + \frac{(x-0)(x-3)}{3} \frac{f(0)}{6} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-3)}{3} \frac{f(0)}{3} + \frac{(x-0)(x-3)}{6} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-3)}{3} \frac{f(0)}{3} + \frac{(x-0)(x-3)}{6} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-3)}{3} \frac{f(0)}{3} + \frac{(x-0)(x-3)}{6} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-3)}{3} \frac{f(0)}{3} + \frac{(x-0)(x-3)}{6} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-3)}{3} \frac{f(0)}{3} + \frac{(x-0)(x-3)}{6} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-3)}{3} \frac{f(0)}{3} + \frac{(x-0)(x-3)}{6} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-3)}{3} \frac{f(0)}{3} + \frac{(x-0)(x-3)}{6} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-3)}{3} \frac{f(0)}{3} + \frac{(x-0)(x-3)}{6} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-3)}{3} \frac{f(0)}{3} + \frac{(x-0)(x-3)}{6} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-3)}{6} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-3)}{3} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-3)}{6} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-1)}{6} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-1)}{6} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-1)}{6} \frac{f(0)}{3} + \frac{(x-0)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-1)}{3} \frac{f(0)}{3} + \frac{(x-1)(x-1)}{6} \frac{f(0)}{3} + \frac{(x-1)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-1)}{3} \frac{f(0)}{3} + \frac{(x-1)(x-1)}{6} \frac{f(0)}{3} + \frac{(x-1)(x-1)}{6} \frac{f(0)}{3} \\ \frac{(x-1)(x-1)}{3} \frac{f(0)}{3} + \frac{(x-1)(x-1)}{6} \frac{f(0)}{3} + \frac{(x-1)($$

5) La aprovamación a stass par medro de un polinomio de lagrage y los protos (1,1); (2,05) (4,029; (6,0.2)

$$P(x) = \frac{(x-x_1)(x-x_2)(x-x_3)}{(x_0-x_1)(x_0-x_2)}f(x_0) + \frac{(x_0-x_0)(x-x_2)}{(x_1-x_0)(x_1-x_2)}f(x_0) + \frac{(x_0-x_0)(x_0-x_1)}{(x_1-x_0)(x_1-x_2)}f(x_0) + \frac{(x_0-x_0)(x_0-x_1)}{(x_1-x_0)(x_0-x_1)}f(x_0); \quad \chi=V_0$$

(2-1)(2-4) (2-5) (4,5-2) (4,5-2) (4,5-2) (4,5-1) (4,5-1) (4,5-1) (4,5-1) (4,5-2) (6,5-5) (6,5-

$$\frac{(4,5-1)(4,5-2)(4,5-4)(0,2)}{(5-1)(5-2)(5-4)} = \frac{-0,625}{-12} + \frac{-0,4575}{6} + \frac{-109375}{-6} + \frac{0,875}{12}$$

J(4,5)= 0,234375