Exercitive 3 Followind "Metoda ani Filiamacci", gasiti valearea x care minimizeara functia: $f(x) = x^4 - 14x^3 + 60x^2 - 70x$ intervaled 0.12 J cu a province 2 = 0.3

(a, lu) = [0,2]

tm > li-a1 = 6,66

Sealinge Fm = 8 = M=5; Fo F, Fz Fz Fz Fy Fs 1,1,2,3,5 18

n= a, + +3 (l,-a,)=0,75

M1 = a1 + Fy (ly-a1)= 1.29

 $f(m) = f(n_{125}) = -18.6$ $f(n_{125}) = -18.6$ $f(n_{125}) = -24.3$ $f(n_{125}) = -24.3$

(a2, liz) = (0, 1,25)

 $\lambda_2 = \alpha_2 + \frac{f_2}{f_4} (\mu_2 - \alpha_2) = \frac{1}{5} \cdot \frac{1}{4} = \frac{1}{2}$

M2 = 1 = 0.75

 $f(u_2) = f(0.5) = -24.33 + f(\lambda_2) + f(\lambda_2) + f(\lambda_2) = -21.68$

[a3, ls] = [12, lz] = [0,5,1,25]

13= M2 = DITS

M3 = Q3 + F2 (la 3 - Q3) = 1 + 2 (5 - 2) = L

f(x3) = -24,3

+ (M3)= -23

 $f(\mu_3) > f(\lambda_3) \Rightarrow [\alpha_1, \alpha_1] = [\alpha_3, \mu_3] = [\alpha_5, 1]$ $\lambda_1 = \alpha_1 + \frac{\tau_0}{\tau_2} (\beta_1 - \alpha_1) = \frac{1}{2} + \frac{1}{2} \cdot \frac{1}{2} = \frac{3}{4} \cdot \frac{1}{2} \cdot \frac{1}{2} = \frac$

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(2-1,30)

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