Exercitive 1 Falosind matoda cautatii dihotomice gasiti minimul functiei f(x) = X(x-1,5) în cadrul intervalului[0,1] cu a precisie de 10%. Constanta de discurmaluli tate va fi luata la alegere f: [011] → B [a, l,] = [011] 8=0,1 IO.0 = B TERL 40,- 0,1= 1> E 11 = 91+811 - 5 = 0149 M1 = 91+lu + 5 = 0,5L f(21)=f(0,49)=-0,4949 +(MI)=+(0,51)=-0,5049 +(x1)>+(m) = (a2, l2)=[x1, l,] [a2, l2] = [0,49, 1] ITER2 | le-az | = 0,51 > 2

 $|TER2|_{le-a_1} = 0.51 > 2$ $\lambda_2 = \frac{\alpha_2 + l_2}{2} - 7 = 0.735$ $\lambda_2 = \frac{\alpha_2 + l_2}{2} + 5 = 0.755$ $+(\lambda_2) = +(0.735) = -0.562$ $+(\lambda_2) = +(0.755) = -0.562$

$$f(N_2) \stackrel{!}{=} f(N_2) \Rightarrow [\alpha_3, \beta_3] = [\alpha_2, M_2]$$

$$g_3, \beta_3 = [0, 49, 0, 755]$$

$$i_{TER3} | \beta_3, \alpha_3| = 0, 265 > E$$

$$N_5 = \frac{\alpha_5 + \beta_3}{2} - C = 0, 6125$$

$$M_3 = \frac{\alpha_2 + \beta_3}{2} - C = 0, 6325$$

$$f(N_3) = f(0, 632) = -0, 54$$

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$$f(N_3) \stackrel{!}{=} f(0, 632) = -0, 6325$$

$$N_4 = \frac{\alpha_4 + \beta_4}{2} - J = 0, 1425 > E$$

$$N_4 = \frac{\alpha_4 + \beta_4}{2} + J = 0, 541$$

$$f(N_4) = f(0, 551) = -0, 522$$

$$f(N_4) = f(0, 551) = -0, 530$$

$$f(N_5) = [0, 551, 0, 6325]$$

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