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DISTOQ/SS

$$F(x) = \ln x + 4x$$

$$[0,5, 1]$$

$$\text{Erro} \leq 10^{-3}$$

$$F'(x) = \frac{1}{x} + 4$$

Iter	x_0	$F(x)$	$F'(x)$	x_{k+1}	erro
1	0,5	1,3069	6	0,2829	-
2	0,2829	-0,1363	7,5436	0,3003	0,0181
3	<u>0,3003</u>	-0,0018	7,3300	0,3005	0,0009

$$F(x) = \frac{\ln x}{1-2x} = 2$$

$$[0,5, 1]$$

$$\text{Erro} \leq 10^{-3}$$

$$F(x) = \ln x = 2(1-2x)$$

$$F(x) = \ln x = 2 - 4x$$

$$F(x) = \ln x + 4x - 2$$

$$F'(x) = \frac{1}{x} + 4$$

Iter	x_0	$F(x)$	$F'(x)$	x_{k+1}	erro
1	0,5	-0,6931	6	0,6155	-
2	0,6155	-0,0933	5,6247	0,6196	0,0041
3	0,6196	-0,0003	5,6139	<u>0,6197</u>	0,0001

$$F(x) = 2x^3 + 3x^2 - 2$$

$$[0,5, 1]$$

$$\text{erro} \leq 10^{-3}$$

$$F'(x) = 6x^2 + 6x + 0$$

Iter	x_0	$F(x)$	$F'(x)$	x_{k+1}	erro
0	0,5	-1	4,5	0,7829	-
1	0,7829	0,3191	7,4626	0,6796	0,0426
2	0,6796	0,0133	6,8989	0,6777	0,0019
3	0,6777	0,0009	6,8919	<u>0,6777</u>	0