## St Tr Q Q Q S S S O

1 P(x) = x2- x-2.5

A partir de grafico pademos deter an Mairys A.B. Com A(-15,-1) & B(2,2,5)

Obtendo o zero da função

 $X^{2} = X - 1.5$  $X^{2} = X + 2.5$ 

L'(x) = 1  $2! \leq \sqrt{x+3!} \leq 1$ 

L'(x1 = 1 < 1 pora A . B

A=  $X_0 = a+b = (-1,5+(-1)) = -2.5 = -1,25$ 

Xo= -1,25=V-1,25+2,5=1,11803

 $X_1 = \sqrt{1.11803 + 2.5} = \pm 1.90111 | X_8 = \pm 2.15830$   $X_2 = \sqrt{1.90111 + 2.5} = \pm 2.09812 | X_9 = \pm 2.15831$   $X_3 = \sqrt{2.09812 + 2.5} = \pm 2.19432 | X_{10} = 2.15831$  $X_9 = \pm 2.15507$ 

X5 = = 2,15 + ST

X6= ± 2,15819

X += = 2,15827

SI THE ON OF SUSS OF Criterio de Parada I) [XK - XK-1] CE. 2,15831-2,158301 CE => 5.10° CE II) / P(x) / < E  $f(x) = x^{2} - x - 1.5$   $f(x) = 2.15831^{2} - 2.15831 - 2.5$   $f(x) = -4.9439.10^{-6} < 6$ --P(x)-17,9439,10-61<E 1 1 B=> X0= a+b = (2+25) = 2,25 B=> Xo= a+b= (2+2,5)= 2,25 X1= U2,25+2,5 = 2,14945 X2= (2,1+945+2,5 = 2,16320 X3= V2,16370+2,5 = 2,15995 X9= 12,15995+2,5'= 2,15857 X5=V2,1585++2,5'= 02,1583+ X6= V2,15837+25 = 2,15833 X+= V2,15833+2,5 = 2,15832 X8= V2,15832+2,5 = 2,15831

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Criterio de porada

I) 12,15831-2,158301= <-10 < E

II) P(x) = x3- x - 2,5

P(x)= (+19939.10-4) < E

(1) ((x) = ex+0,5x-0,5

de AE-0,5,0] o grafico do l(x) o Tairy oprado

P'(x) = 0x+015

Suga Xo= (a+b) = (-0,5+0) = -0,25

 $X_1 = X_0 - \frac{1}{x_0} = \frac{1}$ 

X1= -0,31021

 $X_2 = X_1 - \frac{1}{2}(x_1) = -0,3+02+-0,005413$ 

X2= -0,314814

 $X_3 = X_2 - P(X_1) = -0,374817 - 0,000007$ 

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St . L. O. O. O. S. S. O.

V3=-0,5+4823

 $X_9 = X_2 - f(x_3) = -0,314823 = 0$  1,181411

X+ -0,349823

criterio de Parada

6=0,000005

I) (XX-XX-1) < E

(-0,3+4823-(-0,3+4822))=-0,0000000

±0,00000051<6 OK

TT) 18(x)1 < &

 $f(x) = e^{x} + 0,5x - 0,5$   $f(x) = e^{-0,3+4823} + 0,5(-0,3+4823) - 0,5$  f(x) = -0,00000056 < E

10,0000005615E OK