SUBJECT ORTE
2.9 ชักรี Bisection กำหานนา 4/13 โดยกานผลขอบเขต เริ่มตัน [1.5, 2.0]
2.1 m 4 iteration
$\times = \sqrt{13} \rightarrow \times^4 = 13$
$f(x) = x^4 - 13$
XL = 1.5 , XR = 2.0 , Xm = XL +XR 2
Iteration 1
X_= 1.5 , Xp= 2.0
$\chi_{1}=1.5$, $\chi_{2}=2.0$ $\chi_{m}=\frac{1.5+2.0}{2}=1.75$
f(1.75) = 1.75 - 13 = 9.37890625 - 13 = - 3.62109375
f(x=1)·f(x2) f(1.75) < 0 :. XL = 1.75
Iteration 2
X_=1.75 XR=2.0
$X_{m} = \frac{1.75 + 2.0}{2} = 1.875$
f (1.875) = 1.875 - 13 = 12.402587890625-13=-0.597412109375
f(xm) -f(xp) f(1.875) < 0 : x = 1.875
Iteration 3
X_=1.875 , X_R= 2.0
$\times_{m} = \frac{1.875 + 2.0}{2} = 1.9375$
f(1.9375) = 19375 -13 = 13.968904140625 - 13 = 0.968994140625
f(xm)-f(xx) f(1.9375) 70 Xx = 1.4375
upson 4 iteration
1 teration 4 Ans : + √13 ≈ [1.975,1190]
XL=1.875, XB=1.9375
$\chi_{m} = \frac{1.875 + 1.9375}{2} = 1.90625$
f(1.90625) - 1.90625 - 13 = 12.943123817443848-13 = 0.204123
f(1.90625) > 0 : XR1.90625

4 Pin Ealse Position 10825 - 10075 To 05'25
f(r)
computex, from tano = tan B
f(x) X/ DIRECTOR X = XI f(x) - X CC.
f(xp) f(xr)-f(xr)
$f(x_{0})$ $f(x_{0}) + f(x_{0})$ $f(x_{0}) + f(x_{0})$ $f(x_{0}) + f(x_{0})$
f(x1) (P X too4 X2 A F(X1) 500 to
tuno = tang x = f(x) - x = f(x)
$f(x_0) = f(x_1) = f(x_1) - f(x_2) = -1/2$
TXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
(x f(xe) = x=f=f(xe) (xe)
x=f(x=x=x=x)=x=f(x=x=x=x=x=x=x=x=x=x=x=x=x=x=x=x=x=x
$x_1 f(x_0) - x_1 f(x_0) = -x_0 f(x_1) + x_1 f(x_1)$
x, f(xx) - x, f(xx) = xxf(xx) - xxf(xx)
x, [f(xx)-f(xi)]= x, f(xx)-x, f(xi)
×, = x, f(xx) - x, f(xx)
- f(xe) - f(xr)
1 (re) = 1(xL)

4/13 € [1.89881,2.0]

Ang