* LAB-2 Ans 1) - Jan (0,1) the good obtained is 0.61906 for the iterations · far (1,2), the 9001 obtained is 1,5121 for AUB iterations. · On increasing no of Horations, the accuracy of answer increases It also deponds on the precision point of the program. for Bisection Method after 21 iterations the Milar is bolow 10-6 mo 2) for Menton' Method after 4 iderations, the Algeris below 10-6 · Mewton's Method is male efficient than Bisection Method in this context. · Since there are multiple hoots, we select the interfect [-4,-2] Ars 3) to find the answer, Mosest to O. for 50 Herations, the answer is -3.1831, on increasing Herations the accuracy increases On stading with D, we will get on answer which is diverging Ars 4) because of (n) > Tasints) sin(n) - 2xe-x2. At 0, the whole Kim becomes 0, how the demonstrates oxerall from sends to 00

CI	2	lir			
	1 1	111	1	1 4	

0	· With 901 & 50 its Retions, we obtain the Re	pot 9 428092
•	· To obtain a Soot in [0,4], we need to in	tange the value
	The same answer is obtained with 90 22	lead is 3 1311.

This happine because of the inteal starting point assumptions and the fact it has multiple hoots. Also, the je is almost completely below the graxis.

9(x): R-1-(osx-1

Anc 9 Plot of y: 1(x)

· With a · o in [9,6] we get a
whong answer become we
obtain a clo form in the

· Starl from a value close to 0, but greaks than it

With the interval [10-6, 1], the 9000t is 1.255 × 10-6 for 10 H190Hons.

Ane 6) you is intialised to o for subsequent you, y(i-1) is considered as a represent point for the equation.

9 0.1083 0.6605 0.2167 0.9473 - on increasing iterations, precision at answer increases.

2.9249 3.033 3.0846 3.1416 3.1416

Anst) y(o) is intialised to 1. For subsequent y(i), y(i-1) is considered as a Reperence point.

2 9 . on increasing iterations

0.1 1,0001
1,0006
1,0006
2,000
1,0006
2,000
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0006
1,0

Anss) on laporming literations, we don't heally leach the actual answer due to limited no. of skps.

1, = 0.54167, 7221,29

on taking to Horations, we converge forwards the correct answer.

Honu inexpacing Honations, increases the accuracy.