#	IAB-	3
	-	-

- ai). To obtain an accuracy upto 4 digits, 3 iterations as reded which finally gives up the arswer o 6191.
  - · The iteration scheme is: It is I form

(On) - f(On) - f(On)

- After 50 iterations we obtain Result 4,4934
  - · Sibrilarly for Sood close to 7.7, 20: 7.7 After 50 iderations we obtain the Secret 7.7253.
- (on leager with x = 7. 7253 and x = 7.7 and x, 27.71.
  - After 7: iderations, illu answer divarges, This is because the departmenter terms denominator term: f(2+1(2))-f(2)

Hinds to o here the ordered from knds to infinity. Honce we can perform only 7 Honetions.

(4) The 2 panctions shot are considered are:

not by form a ingestion and it of the significant of the right

. On taking 10 iterations and no : 1, In (1) converges to the right answer but function 2 again gives us a compux root

On taking 50 itogrations and to = 0.5, It I gives us a complex loot

(i.e. complex 2001), whereas and converges to the correct

On sweet.

To general for convergence, both him & fig. & let them be nomed as g(x). If g(x) & g'(x) are continuous throughout the intervel and of |g'(x)| < 1 for all x in the intervel. Then the answer will converge.