



=> F(0) = 4F/N2)	- F(h)
	3
on solving by putting	velves uses get
F(0) 2 4 (3+2) TT	- (-1)
3	D
9/ 15 5 19 18 19 1	Al. The Theorem
order of accuracy =	0(64)



1(b)	No, it is not possible to me
	Richardson extrapolation as
	Q. will have appear accuracy of
	order O(h5) l Q will have
	accertage of O(h9) so it will
	Richardson extrapolation as By will have accounacy of order O(h ⁵) & Q, will have according of O(h ⁹) so it will he difficult to find a I(h) of
	the form
	The form I(h) 2 a + a, h + o(h)
	as both on & P, has different
*****	order of occurecies.
e San	
	A The 1-2 1-1 the world to be the
(2)	Using taylor solvies we can write
	f(n+h) = f(n) + f(n) h + f(n) h +
C. Est. Table	f(x+h) = f(x) + f(x) h + f(x) h + o(63)
and the second second	
<u> </u>	f(x+2h) 2 f(x) + 2 f(x) f + 4 f'(x) h +
	0(63)
	for ho
	4f(nth)-f(n+2h)=
	21 1/2 10(13)
	3f(n) + 2h f(n) + 0(h3)
The state of the s	
	f(n) 2 4f(x+h) - f(n+2h) - 3 f(n)
	f(n) 2 4f(xth) - f(n+2h) - 3 f(n)
	2 h (12)
	T O(N)











