· 1-000 nx = 12 for odd n (0 for wen n. Hence, the Fourier G-extricuts bn Jour in are b1 = 4k, b2 = 0, b3 = 4k 64=011= 4k since the en's ame zero, the Fourier review 24(11) 45 4k (Sinx + Sin2x + SIn 5x. +...)

was represent wherefallerias

sinsn autial suns of the mespertix Fourier series.

The partial sums one SI = 4k sinn, sz=4k(sinn+ +sins) Their prophs in Bp2 reem to indicate that the review is convergent & has the sum We flux methers that at x=0 & x=±x, tupoints of given quinty of f(n) all partial sums have the value zers, the A.M but of the rally (-k) & k of our for (why?)-Funther none assuming f(n) is the sum of this revies & retting n = Mz, we have

f(M2)=k=4k(-1+1-1) 三 1-13+1-1 Mis a famous mesult by Leibnitz. (1673) Anical from gametrical considerations This illustrates Flot the value various remies cuith confined constant ferms can be obtained by evaluation fourmien remissant prints.