edited traine Treorer by for the continuous on [a,6) and (a) . If (b) <0, then the egn fay=0 has at least one real root number of roots in the interval (a,6). 500 tan 20 & lonsider an ¿¿ Continuous [a,b). fa). f(6) <0 fa) and f(b) are opposite sign. two cases me have 2(a) >0 and +(p) <0 (D) S(A) Co and f(b) >0 (Sife) (ca) 4

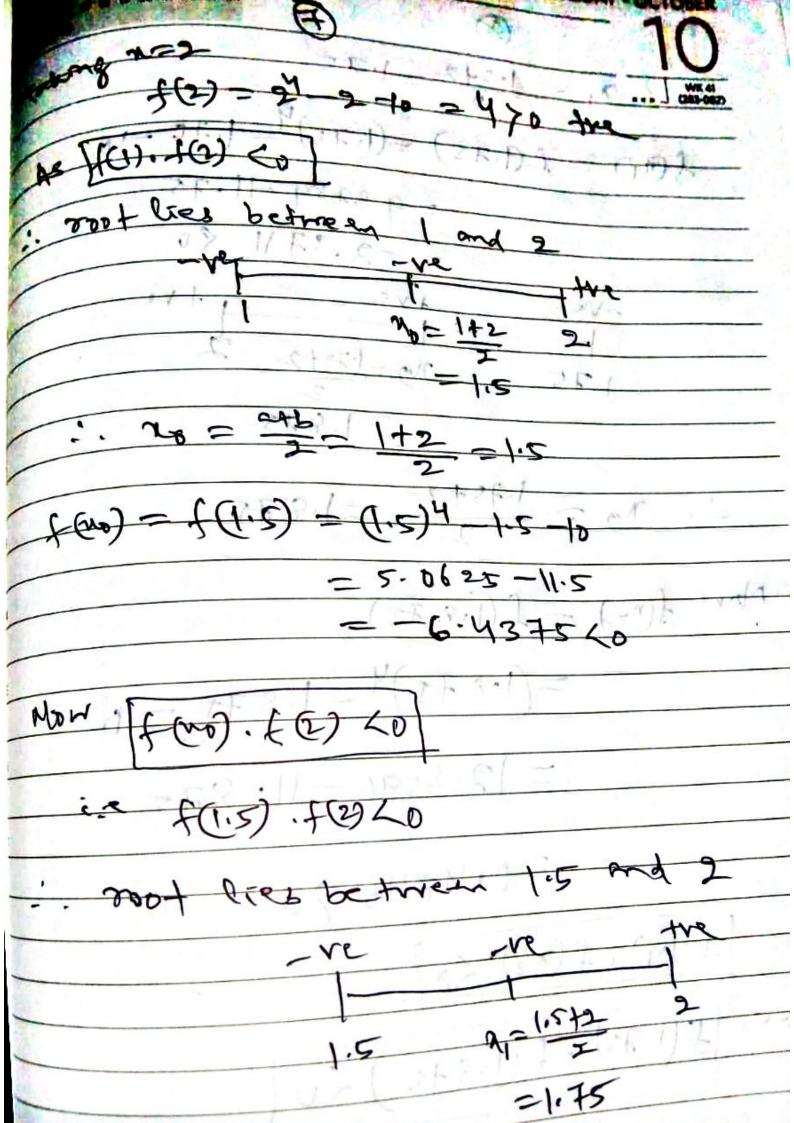
OCTOBER . FRIDAY while moving from A to B, the currye will meat x-anis at toot of the mod point is called ex (a) =0. A(a,fa) the curve crosses + ct is pound to ans another time. i.e. thrice Thus the egg (m) =0 has three soots and so on. 2019 Hence it has odd no. of

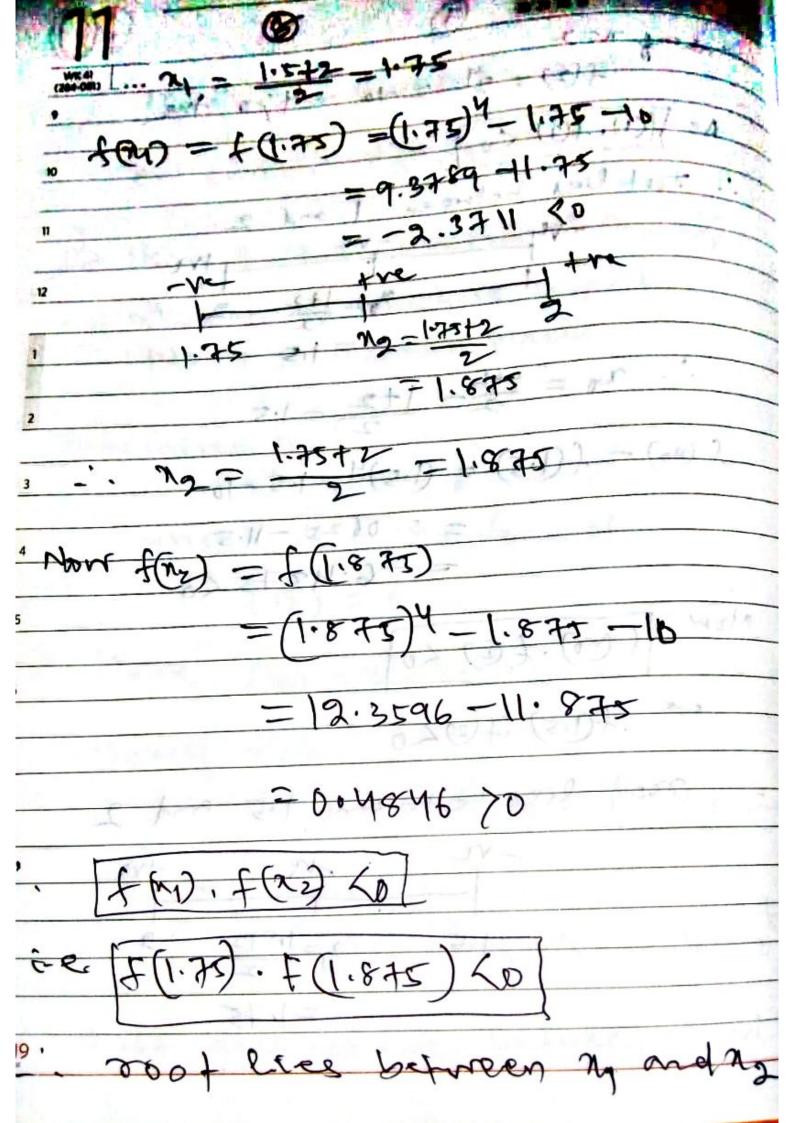
Bisection Method This method is based on the reproted theorem. (for) re continuous on material and (B). f(b) (D. man there exists atteast one root between a ond b. Let (a) (0 and 5(b) >0 theen root ties between a and b. Ets approprimate value is / No= 1/2 If fro) =0, we conclude that no is a root of the egn for =0 SUNDAY O otherwise the root was eather between a and its or no and is. depending on 500) segutione

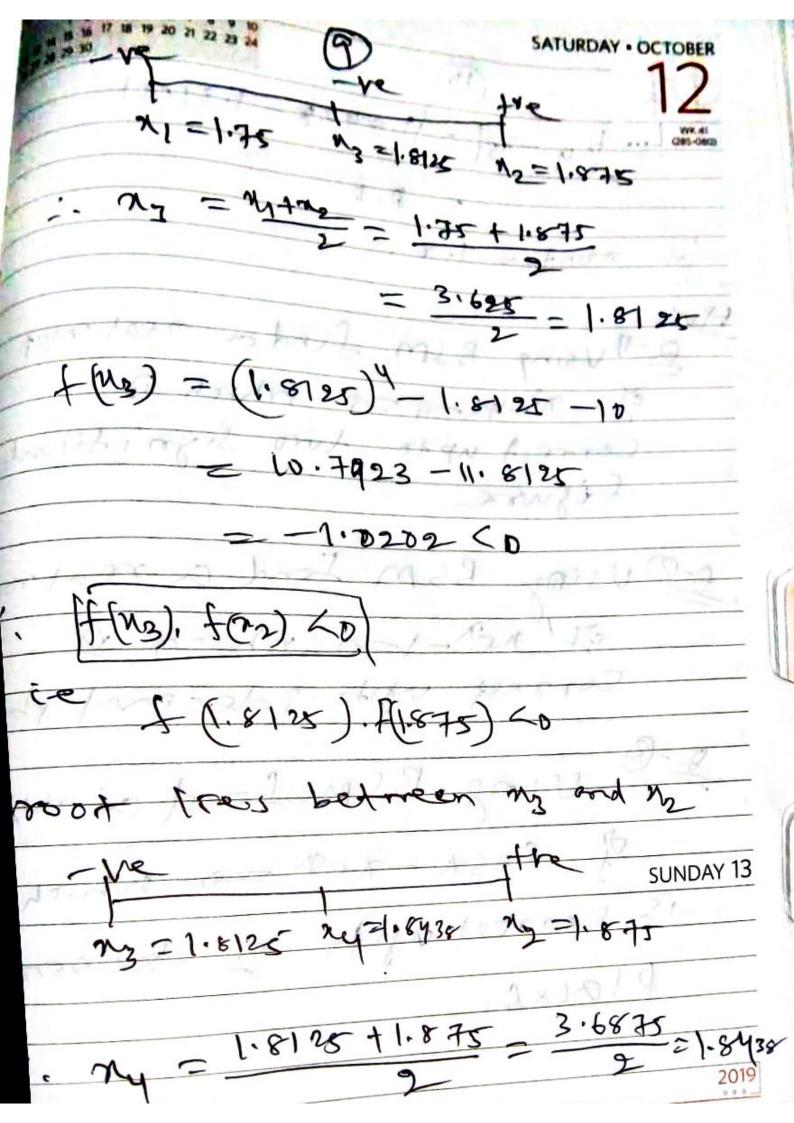
OCTOBER . MONDAY [a, bi] whose length 10 As before, this is bisecte serious ove en interval [an, 6n]

orking Rule choose two med b such that FE). fc) <0 Step- TI For r=0,1,2,3-St tes . + (ur) < 0 then root lies between a and us Set was. So to step 1 96 All. far) >0 then root lies between or and to then set word go to step 1. Step-10: - Repeat this procedure until getting required decimalis plexes

the two successive softs es neglible B Using BSM find a mot of the -11 -10 =p mich is comment 2 decimal places. x = x-10 = 0 for = 29-2-10 Taking N=0 8(0) = 04-0-10 = taking n=1 f(1) = 14-1-10 = -10<0 19. roof does not live between o and







OCTOBER . MONDAY 23 = 1.8 BSM Sinda " BSM Find a real sout BSM fond Charl COSN-Zen =0 is correct up to 2 OLRS.