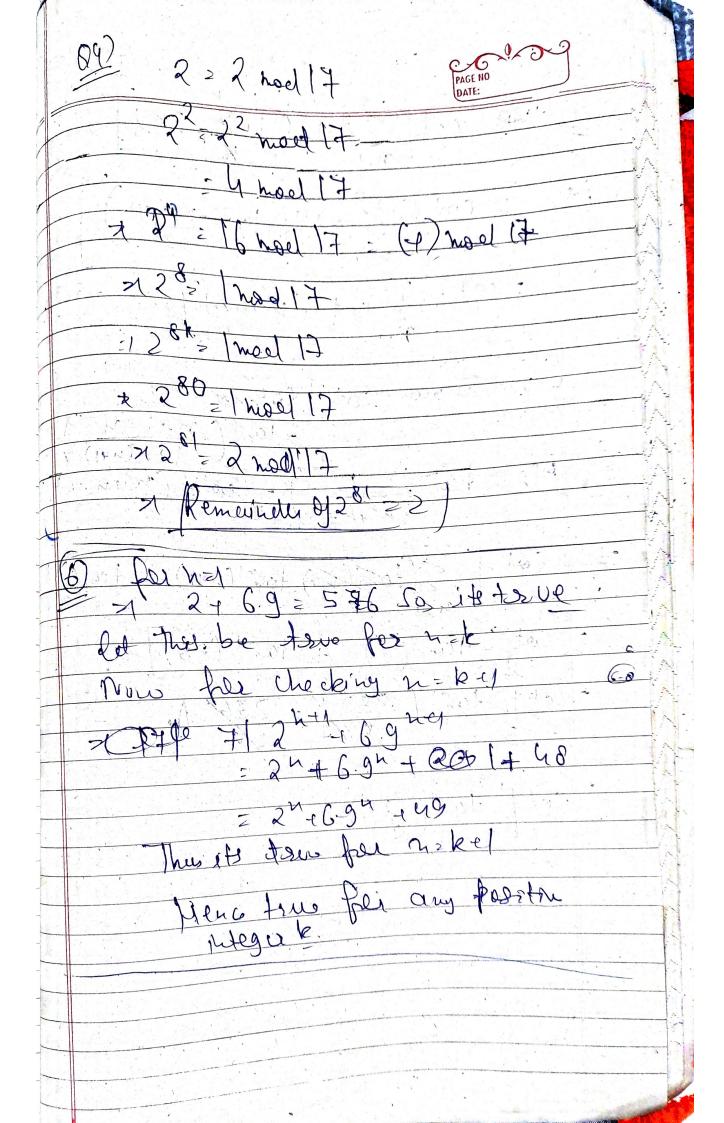
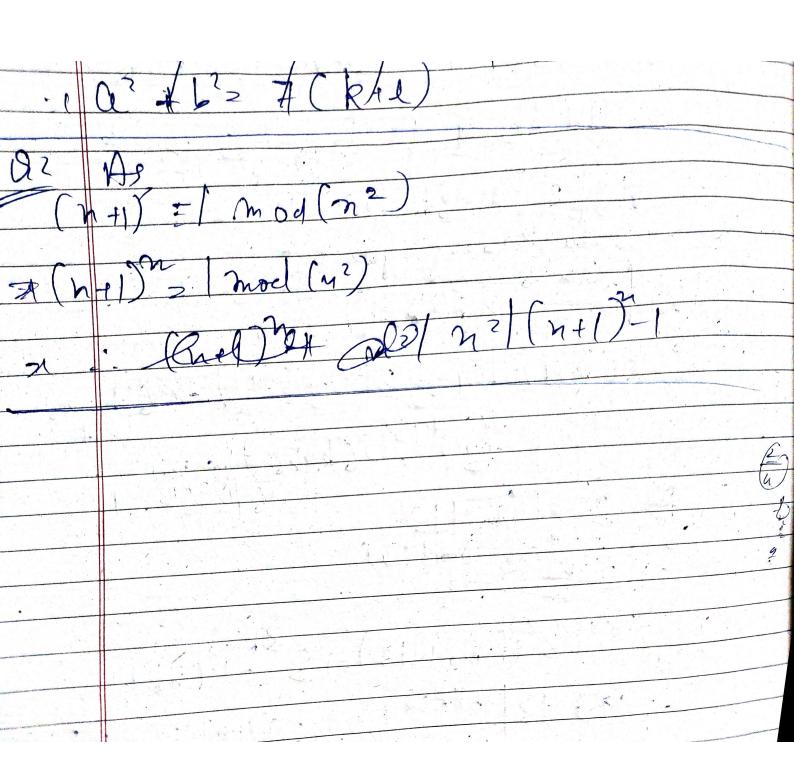
2104/000 Assignment 1 HARSH- METHWANI For n C 2 and n > 0 We have, 169/3 169/32n13-26n-24 per not the seguet of Expression à Jane 676 0000 it the result be true for n=k 3 -26R-27 to perove for 2= R+1 3 n + 6 -26(k+1)-2 kf1)-27 = 33 (32k+3 3k13 36k-26 [mod 13 23/2 +2 3 & ( mod 13) -) = 130 13 32k+3 1 8 169 76. [32+2] 16/ (33k+326k-27) + 36[3\*k+3 Hence its dance for all Paritie integer





distille by 2009 by somming Loching at ones place - 3 - 45 Mis is divinable by 9 This excells 19,90,91,92 9+11222 Unit som is 3 (mod 9 losels of tens don't fee 234 - 8 8-9-1235 Congruent to 8 (mod 9) Again 19, 30, 91, 92 28 is longwest to I mod 9. So Som Is longwest 3 (mod 9) 1 7/21/