Troblem 4. Collins of the collins of al x=1 (mod 3); x=2 (mod 5); x=3 (mod 7) en Product NFL: 3.5.7 = 105 11 18 borr & 10 Compute Contributions of + 2012 = new N2 = 105/3 = 35/35=2(mod 3), Inverse of 2 mod 3 in 2. Term: 1:35 2 = 70  $N_2 = 105/5 = 21$ ,  $21 = 1 \pmod{5}$ , inverse 1. Term 2.21.1 = 42 N3 = 105/7 = 15, 15=2 (mod.7), morerse 2. Term 3.15.1 = 45 Sum = 70+92+45 = 157 Reduce mod 105: 157 = 52 (mod 105).

. X = 52 ( mod 105)

ET. The More delinitation distributes are as X = 5 (mod 11), x = 14 (mod 29), x = 15 (mod 31) Product N = 11:29:31 = 9889 compute contributions: The comment N1 = 9889/11 = 899, 1899 = 8 (mod 11); inverse 08 8 mod 11 in 7. Term: 5: 899.7 = 31465 N2 = 9889/291= (392, 342 = 22 (mod 29), inverse of 22 mod 29 in 4. Term: 14.342.4=19096 N3 = 9889/31 = 319, 319 = 9 (mod 31) inverse of 9 mod 31 in 7. Teron: 15:319.71=33495 Sum = 31465 + 19096 + 33495 = 84056. Reduce: mod 9889: 84056 = 4944 (mod 9889) x = 4944 (mod 98819) . Sai 5 11 2 = 105/5 = 21 , 11 = 1. (madd.s) invense. 2 = 21 21 = 1.12.2 13 = 108/7 = 18 = 15/301 = 84 Jenow Oded = 45% Sum = 40-142-1-45 = 18-4. Pelyee. mad 157 = 52 (mod 105). : X = 52 (mec. 105)

== x=5(mod6), x = 4(mod 1), x = 3(mod 17) Product N = 6.11.17 = 1122 compute contributions: M2 = 1122/6 = 187, 187=1 (mod 6), inverse 2.

Term: 5.187.1 = 935

N2 = 1122/11 = 102, 102 = 3 (mod 11) inverse of 3 mod 11 in 4, Term: 4.102.9 = 1632

N3 = 1122/17=66,66 = 15 mod (17), inverse of 15 mod 17 in 8. Term: 3.66.8 = 1584

Sum = 935+ 1632 + 1584 = 4751, Reduce mad 1122:4151 = 785 (mod 1122)

2 = 785 (mod 1122).

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