ElemTN5_311

TEULER | Penton orice new (20,1) of pentru

orice ac z au (a,n) = | a (modn)

down: (a,n)=1 = aculan).

Ca urmore a z a cuodn).

deci a (m) = 1 cuodn).

T. FERMAT Pentou orde pear porm of penton owas at 2 1 (mode)

TWILSON Pentra orce pear porm (4-1)! =-1 (modp)

Os Daca new 130,13 of (m-1)/=-1 (wody)

Africa existe assol en meas Land existe

Atunai: . Dação a 45

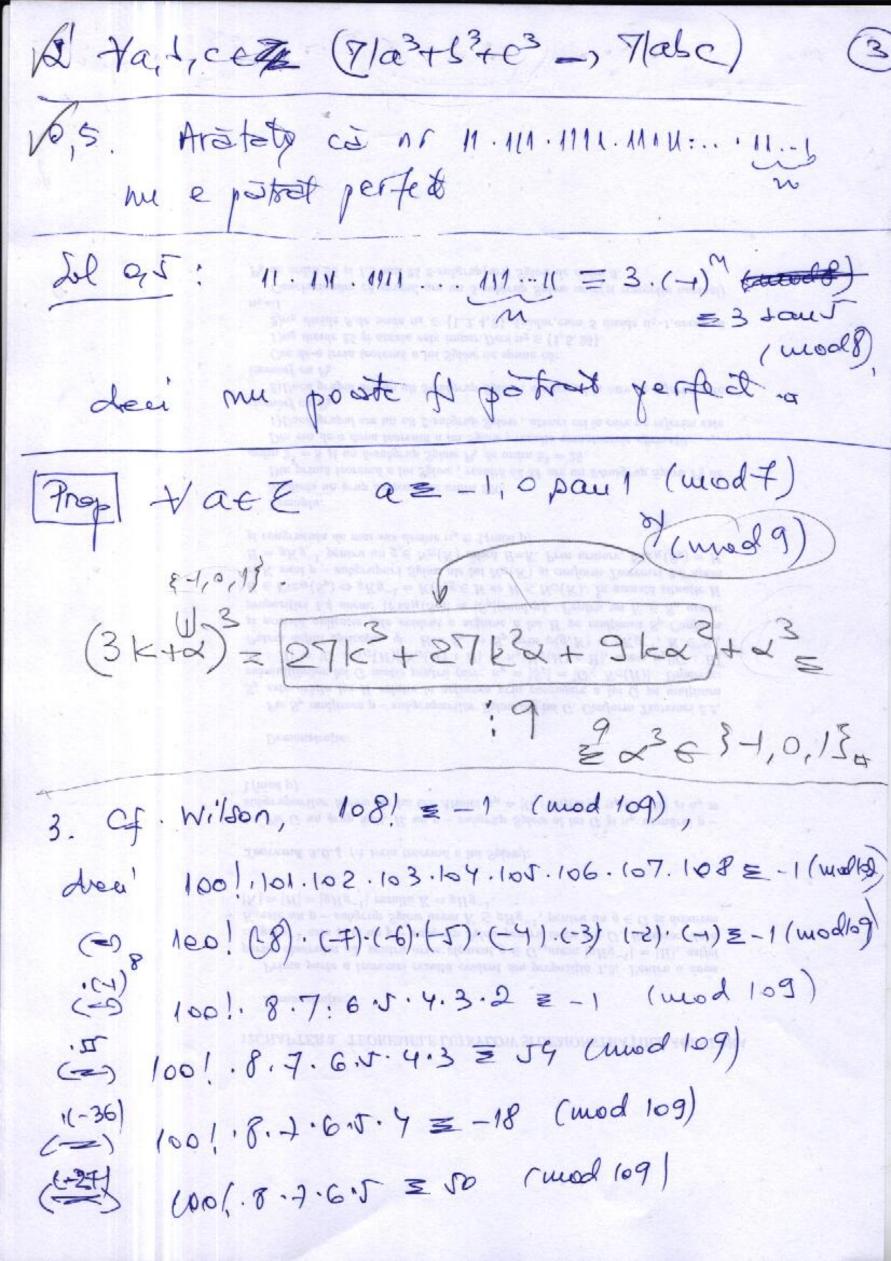
(n-1)! = 1.2....b....a.(n-1) = 0 (mod n), to

e Doco a=b, stunni n=a². Avecu alla-1)! z-1 (modn=a²), deci'

existe é € € 2 d.P. . ac = 1 (3)

deu' à · (-c) = 1 m 22. Ca umare, à ell(Ear), du l'6,9921, Le. The consecret E VACABILA O PECIPROCA T. Luc' WILSON! V4. Pentru ce numer pour povem 2th ez? V2. +a,5,00 = 3+5+3 \$4 (mod 9) V3. Determinate restal imjortario lui 100/1/2109 4. 1733 e prim. Arateto a 7º6 = 1 (mod 43) 5. Rezolvado congruento x = 3 (mod 17) Soll: 2PH & Z - 1 pl2 +1 =1 2Pz -1 (modp)

Dood ped, evidend, 2PH = 1 XZ, X. David 122, of T. Fermal, 2Pt=1(wolp)=3 2 = 2 (mod) } =1-1=2 amod 1-1 +13-1p=3 Reaprox 33+1=3€€. Ca armore, origanil un prim p ce propre. date e p = 3 tr



100/.8.7.6 = 10 cmod (09) 100!.8.7 = 38 (mod 109) . 18 100! ·8. = 38.16.1-36/=21 (modwy) 7.16=3 =536) · 16·(-36) (=) 7.16(-36) =1. 100! = 21.14. (-36) (mod 109) (=) 14, (25) (-1 100) = 11 (mod 109). For all $n \ge 2$ define $F_n(x) = x^n - nx + 1$, where the there exists a unique solution of $F_n(x) = 0$ in \mathbb{R}_n , $+\infty$. This solution $\sqrt{6.8}$ for