23.04.24, Elem TN 9 Africe ope of exponentil 7/ 76 A 76 189 vei , adlas had of the A = 87 B pe of luj adi co pe 4. B: 76 = 81 (wed 89)
A: 873 = 81 (wed 89) Municipal ordinal led a in alten) NOTAM JAWANNUM lui a (mody) en Yn(a). Propell Fre nont of fre at & cue(ain)=1. Attruce: 6) the 2 (at 21 (mod 4) -) Yn (a) 1k) (ii) /n(a)/4(n)
(iii) +k, (62, (2k=a (modw) (=) k= (1 mod yn(a)))

Solt | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 1 3 5 9 11 13 15 19 19 19 29 24 22 1 3 5 9 11 13 15 19 19 19 29 24 22 1 3 5 9 11 13 15 19 19 29 24 22 1 2 2 4 8 16 9 18 13 3 6 12 1



Def3) The MENT [1] of fre a t Z & KENT . CU (a, W)=1

(d) Spunem co a e RADA COVA DE ORDIN & A LOU'1

(mod n) do où a z 1 (mod n)

(ii) Space, m plus, k/y(n), sprinery cè a e RADACINA
PRIMITIVÀ DE ORDIN k (modin) decè y (a) = k.

(iii) Sprinery cò a e RADACINA PRIMITIVA modulon

duca yna)=y(n).

ex; De mai his, 123(2)=11, deci 2 mm e raidacoma publisha (mad 25).

	1	12	13	19	5	16	7	8	19	110	1 11	12	13	141	15	16	17	18	19	20	4	2
3.	3	۵	9	12	15	18	21	1	4	7	10	13	16	19	22	2	5	8	11	14	17	50
31	3	9	4	12	13	16	2	6	18	8	1	at land	ult su									
5.	2	10	15	20	2	7	12	尸	SS	4	9	14	19	1	6	11	16	4	3	8	13	18
Zu	5	2	10	4	20	8	17	16	11	9	22	78	#	1/2	P	15	6	+	12	14	+	
										CO 167	22	18	21	13	19	3	15	6	7	12	14	1
		1																				

Conform tetelului, 823(3)=11, de u' 3 mi e ràdolutus jonni tra (mod 23),

12r 123(5) = 22, dea' 5 e rédéand primitivé (mod 23).

Det g) Fre mont, Premmen cà exista radà.

our puluitive (mod n) of fre 6 ma divite ele

Pre ac ≥ cee (a, n) =1. Num'n Morcette Lui'a

NN BAZA 6 does exponent k ou preprietate

be za (med n) Props. Tre m & b co m def. 4. Atmai: (4) Daca a, az, -, az EZ H (a1, 4) = 1, atual Dud (a, 92 ... 95) = ind a, tindazini indas (madyo (ii) doca att Z, (an)=1 H LEZ, judgak z kinda (mod (m)) ail Doca b'e att rélaine promité (mode); ir as 2, cantel, atune und, a, ded b' = mdga. (med p(1)) observatu cat modelo 8 me centa solatent ce numere n'existed estaballed promotive? Pre new 1887 rempueeur cà exists valda.
con printe (mod n); fre b ma du vhe Atrica, Bescaupmend n'un factor muni, orem U(En) Butery) x x (Epr) Ather and P(1) = [ard p, ord pz. ord pr.] (pi find component i a dui & (6)). Dor 10(Epxj) = pjel(p,1); pla anea egalitæten l'ale mai on e muesar ca

(4) sa me au ta 2 fector product duport factor prom mor, 2 trebute de agora in deseau punere LA FUTGREA INTA! Conclusse: Injude rumere naturale 1132 module care mai e vice jantà dat existe rada celu' promestre sout: a putente de 2 · faterte de prim ruper, xon* Fre x & 22+1,

Atma x² = 1 (mod8),

ohew $\pm \lambda \in \mathbb{Z}$ $\chi^2 = 1+8\lambda$. Pr. 32/2 22/21+2.2. Atmai 22 (x2k) = (1+2k+2) = 21+2+3/,
Stree (deed // 12 (x) 12 (x) /2 (x) Morala: Pt muyo valoare LZ3 mu mutta rada um pulmiture (mod 21)