& Freactic continue junite Fie & ER, 6 EN*, a & Z It. nr. a 16, conform. T. imp.cu rest. I. 9, to Ex., incit a: 69, + 20, 0 = to < 6. => == 90 + 20 (1) Accalog pt. But to Ig, ze Z, 6= 20 9, + 21, 0 = 21 = 20 => \$ = 90 + Ex (2) The to 1 21, 3 9, 22 EZ, to = 219 + 22 > 0 = 22 = 22 + 22 - 13) * En-3, 2n-2 J gn-+ 2n-1 EZ, 2n-2.912n., 2n-3 = 9 + 2n-1 (M) * En-2, En-4, 7 9 En 6.2, En-2 = En-1.9 + En => => - En-2 - 9u + En-1 (n+1) * En-1, En 7 3 9 1 1 111, Ente = 0, En-1 = Ku, 94 = 7 En-1 = 9 7 (n +2)

Substitucial epalitatea in 1, obje nes a - 90 + 1 = = Utilizinal (3), obsinem. +7 9,+1 Repre sentares & sub forms; = 90 + 91 + 1 92 + 93 + ··· 9 = [9019,192, 19n+1].

Excuplu. 1) Depresentati m. 67 sub forma de frazie consimoa finita 67137 3430 30 7 91 28 4 92 2 12 (94) B+ =[1,2,4,3,2]. 2) - <u>113</u> - 113 = 49 (-3) + 34. -113/49 49/34 34/15 15/4 4/3 3/8 -113/12 (90) 34/119/ 30/2192) 12/3/9/3/19/ -193=[-3, (, 2, 3, 1, 3]. 16: 8 - [0,1,2,1,2] 8 15 (90) 3 1/19, 5 2/90 × 1/19, 5 2/2/94)

0 + 1 + 1 + 1 | 11.

Reduselle fraction con Cousiolained: 9-90+ 91+ 1 92+ 1 93+ 1-1 94 Infraesia de como sus escencia utherator rea Ao, Au Leclessele fr. confirme ale lui 6

Ostroàne da tredusa An no 7,1 se obtine din pre ceolerita, adica de a Ax-e en reruesascel suessi hesier a ecci: 9m-1 7 9m-1 + 1 Efectuacie unicatorier notatio. Ao= 90 = 90 : Po= 90, Ro=1. Ar= 909, +1 = Pr; Q1=9, Pr= 90/4+1 = 189,+1 A2 = 90 + 1 = 90 + 92 = 909,92 + 96 92 = 91,92 + 91 92 = 91,92 + 91 = (90 90 + 1/92 + 90 - P1 - 92 + P0 - P2 16 y 92 +1 P, 92 + Ro. Re Ps-1. Ps+132 Folosiu met induct matemat (1) 95-19, +952 I) 5=2 P192 Po (are log)
9:9+80 1) Presupunem ca (1) au loc pt. 43 (2 ≤ 1 ≤ x-1 = " Vereficau ul pl- s= k. Intraderar conforme pasielui ir al inducti ii al

Ax-1 = Prix 9x-1+ Pr-3 = Pr-1

Qx-2 9x-1+ Qx-3. Qx-1 beorece redusa Au se obtine ocine prin AK= PK-2 (9K+1 9K) + PK-3 = PK-2 9K-1 9K + PK-2 + PK-3 9K Qu-2 (9n-1+9n)+Qn-3 Que 9n-19n+Qu-2+Qn, Q (PK-2.9K-1 + PK-3)9k + PK-2 - PK-1.9k + PK-2 (QK-2.9K-1-1QK-3) 9K+QK-2. QK1.9K+QK-2 (1) este venisicata pl. s=K Conform principilder ind mateur de'y Inele prope ale reduselor Fie Pr-1, Pr douà redust a consecusive als: En alunci: PK-1. QK-PK QK-1: (-1)K Vere je cà un pri us une soda inol ma secreat Po. 91 - Pa Qo = 909, - (Po91 te)= =-1=(-1)k

2) R= J-1 Ps-2 95-1-Ps-1 95-2=1-115-3) Vere si ca cu pt k = s. · Ps-183 - Ps · Qs-1 = Ps-5 (95 · G-1+ Q1-e) -- (Ps-195+ Ps-2)81-1= = Po-1 95-1 9, + Po-195-2- Po-1 95-195-2 95-1= = (Pg-2 B3-1 -Ps-1 B3-2) = -1-15=-13. bin 1/2/3/ conform i'nd make = ca + x 7,1 20) Redusele frat. conseince sunt fract. $\frac{1}{4} \frac{P_{\kappa}}{Q_{\kappa}}, \quad R_{70} \quad (P_{\kappa}, Q_{\kappa}) = ?$ $\frac{1}{4} \frac{P_{\kappa}}{Q_{\kappa}}, \quad R_{70} \quad (P_{\kappa}, Q_{\kappa}) = ?$ $\frac{1}{4} \frac{P_{\kappa}}{Q_{\kappa}}, \quad R_{70} \quad (P_{\kappa}, Q_{\kappa}) = ?$ $\frac{1}{4} \frac{P_{\kappa}}{Q_{\kappa}}, \quad R_{70} \quad (P_{\kappa}, Q_{\kappa}) = ?$ $\frac{1}{4} \frac{P_{\kappa}}{Q_{\kappa}}, \quad R_{70} \quad (P_{\kappa}, Q_{\kappa}) = ?$ $\frac{1}{4} \frac{P_{\kappa}}{Q_{\kappa}}, \quad R_{70} \quad (P_{\kappa}, Q_{\kappa}) = ?$ $\frac{1}{4} \frac{P_{\kappa}}{Q_{\kappa}}, \quad R_{70} \quad (P_{\kappa}, Q_{\kappa}) = ?$ $\frac{1}{4} \frac{P_{\kappa}}{Q_{\kappa}}, \quad R_{70} \quad (P_{\kappa}, Q_{\kappa}) = ?$ $\frac{1}{4} \frac{P_{\kappa}}{Q_{\kappa}}, \quad R_{70} \quad (P_{\kappa}, Q_{\kappa}) = ?$ => (Pr. Gr.1): d1 (Rr. Pr.1): d=> => (Qx ·Px-1) - (Pn ·Qx -1) i ol => (-1) i ol => d=1 Observation una dénaplicative for continué fra cti lor. B = Pn

Tinènd cent de algoritmus discris n' n'enerosori los fractions redles · Redusele fr. consinue usor se aftat ce 9n 1 90=2 809+4 892+P0 0 1909-91 91 92+90 Pn-19n+Pn-2=Pn Pn-1 9n + Bn-e -92 ex. (asmanator cee6) 236 = [1, 1, 1, 1, 3, 3] 236144 144 92 9252 1441(90) 9211(91) 40 192) 40/12/36/3(94) 5240 3 59 36.

 $A_0 = \frac{P_0}{q_0} = \frac{1}{1} = \frac{1}{1} = \frac{P_0}{q_0} = \frac{5}{3}.$ $A_1 = \frac{P_1}{R_1} = 2 \qquad A_2 = \frac{3}{2} \qquad A_4 = \frac{19}{11} = \frac{59}{36}.$