HA. 1 21; 10-12- 2021 Aplicatio recapitulative person lucraria de contral Sa se calculese Brusta deulos en termenuel general: ×n = 1+12+13+-+ vn - an = (0) Criterial cesar-stoll back (In) near ente executar n' weurt nge unt m date - da ofmed of m' Ging In = l. by = non / + w Rim anti-da - Cim 1+12+ + Vn + Vn+1 - (1+12+ + Vn) (n+1)·Vust - nVn = lim Vn+1 = 00 -00 lim Vn+1 (n+1) Vn+1 = (n vn) = 00 -00 (n+1) Vn+1 = (n vn) = = lain $\frac{(n+1)^2 + n \cdot \sqrt{n(n+1)}}{(n+1)^3 - n^3} = \frac{n^2 \left[(n+1)^2 + \sqrt{n+1}\right]}{3n^2 + 3n + 1} = \frac{n^2 \left[(n+1)^2 + n \cdot \sqrt{n(n+1)}\right]}{3n^2 + 3n + 1}$ = ling 1 (1+ h) + V1+ h) = 2 = 1/ lim xn = 3 NUM 82 (3+ 3 + 12) (2) SCM PCNIA = SiM Xn lion Van = Com ant sais a lave Counta existe

note (n+1)?

an an (n+1)! an = (2n)! . Pre / horn an = him (2(n+1)! 2n+1 (5W) 1. Bu = Bim fa!(n+1)2. (2+++. px h 200 (2n)! (2n+1)(2n+2) 20 4. 8. (n+2) = Brun (n+1) (2) 1. Brun n(1+ h) =) frim Xn =

Etic seria de un mele = (n!) , 7100 Zati matura - fexte on telmemi jozitivi; an= (n!). " vetrici.

Sim ans = 1 21 ... Carl. ... " Rim ans = 1 21 = fema este convergente (30) \(\frac{1}{(4n-3)(4n+1)} \); an 70; Aletage cold eight nature not server at the content of Jn= 1.5+ 5.9+ 9.13 + --+ (4n-3)(4n+1) $\frac{1}{(4n-3)(4n+1)} + \frac{13}{4n-3} + \frac{13}{4n+1} = \frac{A(4n+1)+B(4n-3)}{(4n+4)(4n-3)} = \frac{1}{(4n+4)(4n-3)}$ A(4n+1)+ B(4n-3) = 1, (4) n en.

n(4A+413) + A-3B=1 (4) n en (5) | 4(A+B)=0

n(4A+413) + A-3B=1 A=-B=1 A+3A=1; MA=1; A= +; B=-+ (4n-3)(4n+1) = 4 (4n-3)(4n+1) (4n-3)(4n+1) (4n-3)(4n+1) AC1: 15 = 4 (1) 5 nie: 1- = 4 /5- 4 n=3: que = 4 (4-13) n-2: (4n-+)(4n-3) = 4 (4n-+ 4n-3) M: (40-3)(4 n+1) = 4 (40-3 (41+1)) A Sn= 4 (1- +1) 1= 1 lim Sn= 4=8

(9) Denn ca Mint Sn = 1.5 + 59 + - - + (411-3)(4144) e 124e Mr. Canchy, = (41870, (31 70/8) (41 1 711/6/8) My ferring general se come of and cancily: Situal (an) mentione convergent to (an) ende six country.

The ETO, at Enthat.

| Sn+P-Sn | = E =] (4 n) (4 n + 1) (4 n + 5) + (4n+4p-3)(4n+4p+1) - 1.5 - (4n+1) = = (4n+1)(4n+5) + ---+ (4n+4p-3)(4n+hp+1) = = 4 (4 nt) - 4 nts + 4 nts - 4 ntg + - + 4 ntg + 3 - 4 ntg pt) 2 ty (4 m) - 4 m+ m x + 1) < ty (4 m) - 4 m + 4 = 1(4H1) < E => 4(4N+1) 7 ± 14NH7 4E 4n7 -4E-11 n7 [(4E-1)4]+1 Motor No(E) = [4/4E-1]+1. = 4 face n > No(E) con a tat mai mult ham a ma:

| Sn+p - Sn | < E, (+1 E7), (+1 PER), your than (3) No(E) on. one face definition the shullow country Mt Sn (Sn) country of sn country.

(3) 1 (4) = (5) = 1 - 4 + (4) + - ferre orternation - serva gramethick de laste 1 = - # = (-1,1) - + x + + = = de fatte

Fre feria de preten: 8 = 6 m (ant) = 6 m / (at) > an.x an = 1; S= am | an +1 = am 1 = 1 = 1 [= 1] I = [-5] = (-1,1) = internatul de convenir este canv in acerte junete. = 1 + 1 + Rim Sn = + 00 = 4 Sn= 1+1+ --+1 XE-1 SIE1; SEE1-120; S3=52+121; S4=0, Szz=0; Szz-1=1 = (Sn) MV => uneflurer de curr à ren'en geauveture 51x1= Bim Sn(x)= Bim (1+x+x+-+x1-1)= ese A=(-1,1) = him 1-x = 1-x, 1x121; linx x=0 7 1-4 = 1+4+4+ -- , 4xe(-19) 1-4 x=-\$=(-1,1) = \$\frac{2}{1-(-\frac{1}{5})} = \frac{1}{1-(-\frac{1}{5})} = \frac{1}{1+\frac{1}{3}} = \frac{1}{1-(-\frac{1}{5})} = \frac{1}{1+\frac{1}{3}} = \frac{1}{1-(-\frac{1}{5})} = \frac{1}{1+\frac{1}{3}} = \frac{1}{1+\ 200 (-1) 1-1 (y) n-1 = 1- f + (y) + (y) + -+ (-1) (y) +
200 (-1) 1-1 (y) n-1 = 1- f + (y) + (Can veryenta (Metz) Et-1": an i saca an 10 => ferna ende caux an=(+)n-1 in-100 (4) n-100 an=(+) 1-10 - Jeria este courtigenta!

(6) stabilité obra retirible virunitaire runt re sans. C E de sin. Ac da ca E | an | or the canv. De an A. n. S. C. daci este cannesqueste! dan h=1 rema madule (as Elan) este minerjeuso Ex: fema ahuramica alternase: h=1 reste canno m' an este equila con la g h=1 reste canno m' an este equila con la g Levia preduletar ate son a generalizate

The seria arms m'en generalizate

The feria arms m'en generalizate back X71 = Ferra enge cour back 0 & 2 & 1 =1 Feria are Mot. fact & <0 =1 lim to = lim n = + 29 mm ende independe a condition recepant (dan un no profesenta de consulta recetora (mon un men).

Ex 2 (-1)n priz, peril

- revie alternate i from the peril afternate

cant unt son seidnit pt sein afternate

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ferra este cont

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ferra undulclar: 2 pr m m m m

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ferra undulclar: 2 pr m

fe 172 = p < 2 < 1 => feria madulelar ente divergenta - Gena invitali eile sc. seria madulelar: 5 1, x 71; = conv, flind sent alm. generalisaté en 271 = s penia sun Hati