LUCRARE ANALIZA 1

```
ST. IHX =-2
                                                 Stabilità en functie de a si le natura vivie
                                                  SOLUTIE:
                             til an=(-2m+a)-2m
                                \lim_{m \to \infty} \frac{1}{(-2m+4)} = \lim_{m \to \infty} \frac{1}{(-2m+4)}
\lim_{m \to \infty} \frac{1}{(-2m+4)} = \lim_{m \to \infty} \frac{1}{(-2m+4)}
\lim_{m \to \infty} \frac{1}{(-2m+4)} = \lim_{m \to \infty} \frac{1}{(
         \lim_{m\to\infty} \alpha m = \lim_{m\to\infty} \left( \frac{2m+\alpha}{2m+\beta} \right) = \lim_{m\to\infty} \left( \frac{2m+\beta}{2m+\alpha} \right) = \lim_{m\to\infty} \left( \frac{2m+\beta}{2
                                                                                                      \lim_{m\to\infty} \frac{2m[-6-a]}{e^{-2m+a}} = \lim_{m\to\infty} \frac{2m[-6-a]}{-2m+a} = 2e^{-2m+a}
                     Dessure e #0, 4 a, le ER = 9 sim am #0 =>
                => > am este divergentà ( din reiterul suli-
                 cient de divergental.
                                      = \sum_{m \geq 1} \alpha_m = \sum_{m \geq 1} (\sqrt{2m} = \sum_{m \geq 1} \sqrt{2m}
                                              trainflux Ruisettion mib) atmosperib etre ma = = =
                            Atmosperib et
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 $A = \sqrt{\frac{n+\alpha}{m+\alpha}} / m \in \mathbb{N}^2 \Rightarrow A = \sqrt{\frac{m}{m}} / m \in \mathbb{N}^2$

AZF, 'A, FZA

Atimipeam - A

Atsayman - A

Beenan - A

SOLUTIE:

 $T. \lambda = \emptyset$

BOOKEF, AJXE (= RJXE (= D+ A)

D = 4 = (x+x, e-x)

Don an (x-x,x+x) re gavere a enfinitate de

termeni vationalia contradictie

Deci A = \$

1. 4'=20g.

inifini a va AnV, or 3V & Baiba, 'A 30 tach p

tate de Cemente.

Tie V = 00 = N = (-3, 2).

Dart [=] este umpara = VAA-h m/a

Deci V M= / m/m>[2]+1, m-parg- a unfinier Late de dumente.

2). Habt 4 x # 0 = > x # A'.

GACO OF FOR F F BO MANUFACEL V nA voie a or de Demente.

(ま+0=) を>0 MM まく0.

0< x /0

Doca = mo = N ai &= 1 = Daca = 1 -1 mo-pas

& stor (com com com)= V (=

Dark & mo = No mo - year at & = mo THENTHAL GOOD SEE (MX+2, MX)=) X) &=AAV Bellema unpposed cox & prof EDY O EMBULLUM - 404 = 4 I M. Fan=A/A=A Btagman - A. W Roccetine else A = stragman 924 atragman et e la la compacta VII. A- remessa Blimigram is Brindens also A = Beenan 912 A Branas ette un Ar= prinkens ette comered (X) Doug &> = 1 = (x-2,x+2) Thega=x-==>1=(2,2x-=)=>VnA=8 Lock &< == 3 m, EIN, m1-pa at OF E (mi+2 mi) - Aleg = mimbx-1 1 2mi 3= => V=(x-x,x+x), VnA=Ø. Paperadez analeg pendeu x co. Daca I moEIN, mo-impax ai &=- 1000 => V=(-\frac{m}{mo} - \frac{m}{mo+2} - \frac{m}{mo+2})=1 V nA = \frac{m}{mo} Doed of mo EIN, mo-impar at = -1 Dard 3 <- 1. cheg a = -1-2 = =ノノ=(コナーノーリランノリナ=カ to sayons, Ma om E (=. 1-< & Dack E = (mo > mo+2). Aleg = mimbre +1 => Vn4=Ø. x+1-1

<u>जा</u> . १. २० J. 0=2

> " Studiati uniform continualatea Gunatiii: on 4:(0'0)-16' 2139 = 35+24.

EDMLIE:

7: (0,0)-JR, 2(3)= ==

1 = w/wx) Busif . I = m & cm = m = w/wx) Busif sit este descernat si masquirit, deci comsesquet.

your 2(2m)=2(m)= (m)=2=> =) L(xw) = 5m2 =)

=> lim = (3=m) = Sim = 2m2 = 00 =>

=) soul (flæm) = mu este convagent.

estoteisparp sucostismes silga

mud pluce un six cauchy ante-un six Couchy"

Descrete (Im) us, exte coursabent si (f(xm)) un exte comendant = = + ru este uniform continue.

2. Fie 4:R-R, \$(36)= V32+Q.
Dem. Ch \$(36+1)-\$(30) < 1, 4 & ER.

SOLUTIE: 4:R-R, \$(2)=122+3.

Fix & ER. Aplic Teasuma lui dagrange que [x,x+]:

D &- continued be [x x+1]

(1+x,x)er seboisele -7 (2

=> \f(\alpha+1)-\f(\alpha)=\f(\alpha\) \\ \f(\alpha+1)-\f(\alpha)=\f(\alpha)=\f(\alpha\) \\ \f(\alpha+1)-\f(\alpha)=\f(\alpha\) \\ \f(\alpha+1)-\f(\alpha)=\f(\alpha\) \\ \f(\alpha+1)-\f(\alpha)=\f(\alpha)=\f(\alpha\) \\ \f(\alpha+1)-\f(\alpha)=\f(\alpha\) \\ \f(\alpha+1)-\f(\alpha)=\f(\

end for a contract of