	=> 11 fr)- fa) 11/2 E.
	1) Late continua in a ;
h(xn)=f(xn)+g(xn) -> f(a)+g(a)=h(a)-1	on le umas carecterífais a animitation
19	Det & fendis & m. comma pe o multine
5 (* 9±0), 1£1, max(7,5), min (7,5)	2) Doca a Af (and punct ifold), exucuci
This The of g: A \subseter B" \rightarrow N2 function continue.  This The of g: A \subseter B" \rightarrow N2 function continue.	Obs. 1) Doca a e A, estume of est continuo in a
or pour compenser pour operale andmetre	in (Salus) du A cu Za -> a => f(Su) -> f(a).
der 12" or 12P)	The first of Men 120, f=/f/), fo), ach
	Defenitie Propuedate
to the state of th	Note Title Tunche Continue

Dew Tre (In)ms, fin die A, In -> R TMG. To fo ACDM > De o function Others a V E Ora) a s. fr)>0, txEVO A. de les es los sometiones propriéta de parlace a antima in a EA on Fla) >0. 76 Mos te continua u ach si ge continua u (907)(2m)= g(f(2m)) +19 > 91/61)-(907)/61 fraic B => got: A -inter a continua \$10170= f(x)>0, x EVEDTO) Relative la cont functiille vectoricle avenu unicatorice condition peu a overleis:

That to A \le M2 m m2, f= 14, ..., fo)

or a \le A. Atumei: Fut out pe R pt ca fixy = xh a fixy = xh; Bent carlinal on no: Ex2 Studiest continuation fencetice -S: R -> 1/2, f(x,y)= { x+yr, (x,y) + bo) Set fe and pe PR \ \ 100) \ Sucheu card

In (0,0); lim f(x,y)= ? Ex1: f: R-> R-, f/Ay)= (xy, x+y). fe cout in a cost fifes-... to sout colone in a # (3m) - + (a) , -- , + (2m) - + fo (a) tand in a => +(2m) -> +(a) (-)

M. & Fundic for A \( \in \mathbb{R}^m \rightarrow \mathbb{R}^m \rightar 10,0/<-(414) Definim à continuare o notione nour de - Je continue pr R. | f(41) |= |x+5 = x+5 | 15 | \( \frac{1}{2} | \) 0 < (7kg) < 191, 4ky+100) lun f(xn) = 0 = f(0,01 -) font in (0,0) => {k(4) = x24, (x14) + 1010), An loe: 13 > 11 (4) + (3) + (1) C= P> 114-> 11 10/0/C/(h/x) () Ex Functor for 12 12 12 | f(x)= x2 e continua, dar ma Dem Cantan doro forma (an)mo (4m)no, (4 Obs 1) funiform continuo => f continuis. Luam: Ja=m, Jm=m+ m, MEH! A) rem: | 2m-9m | = 1 -> 0 & pe A (=> for... to sunt imporm continue pe A. 2m-Jm -> 0 & f(3m)- f(yn) +> 0. 2) Exists function constinue care mu sunt uniform continue (est superents foran y=aEA in D1.8=> f continue in a)

Dem Fe E>0 or S= E stune The Fu f: A & Ra -> Rt o funde Exemple f: (0,+0)->1R, f(x)= xe-x at unform continue O clasé de functio uniform continue out Lipselus (31>0 al fx, bel) funche marginité jer (0,00) (Teure)
duche marginité jer (0,00) (Teure) 11 f(x)-f(y) || \le L. || X-5/1). Stunes deci fet winform continue pe A pentin once KIJE A cer 11 2-5112 & arou TE 1 ( Weres thas ) The A = 12 m o multime emparts

find a first of the continue margina for B.

Dem 1) Dem 30 find marginale there as first morningende. Dear fact marguration. Din A Congreto > OxiNa we turion (2m2) > a lu (2n/m) or 2 hopreselle functules continue pe multure compacte is he maltin come xe Zmy Ja, ac A.

2) Dem cat in active a margarely pr # Int continue for A on at of poet Mal due. The M= seys of, m=int for A.

Etriclend M, m & TR ph a f sot marginta.

Thebric Lew. On Jan, m & A a.l. Presupen prin absund es M me se atunge: fx) < M, fx & A. Struct pat defini function 9: A -5 PC 7(2,1)=M, F(2,1)= m ORICM, TXER M-7 12.2 (Heime-Candor). The ASR" o multime augocità on 7: A -> 12/2 a functie continua pe A. Atuna fat uniform continua pe A. (Dea fundade antimus pe un compoct sent Deci au Alu ca Mate atus molog se anta Je dem de asembres vimotosno Lesuns. M-76, < M, tx EA ca m se atingle. M- FRISH, TXEA \*M < M- L, TX EA M + sup f , anhadion



