

ON THE BOX DIMENSION OF COMPLETED

use posnegone boke pagnepuo cito na gonzalenara spagonka pa orpanitena permosamento postukujem, sego. 6 mnom. De [0:1] m inter on pesenema no chegobarento cit ma creg tunh cu mosegn T (f, 5) 2/12) 3a 5>0. be succobat a Jour goxasbot, re biska do-a f & Lipt, d & (0:1) noma Xayceopopopa paznepuo cit ka apoponeta un ke nobere ot 2-L.

Here $SL:=[0,i]^m \subset \mathbb{R}^m \Rightarrow m$ -neper Hopmipan Bertop or notoporcitoto C enemeron: $t=(X_1,...,X_m)$.

geto. Ropmoto: $I|X|I=\max\{|x_i|:i=1,...,m\}$ is very instance $X\subseteq Y$ and $X_i\subseteq Y$: $\forall i=1,...,m$.

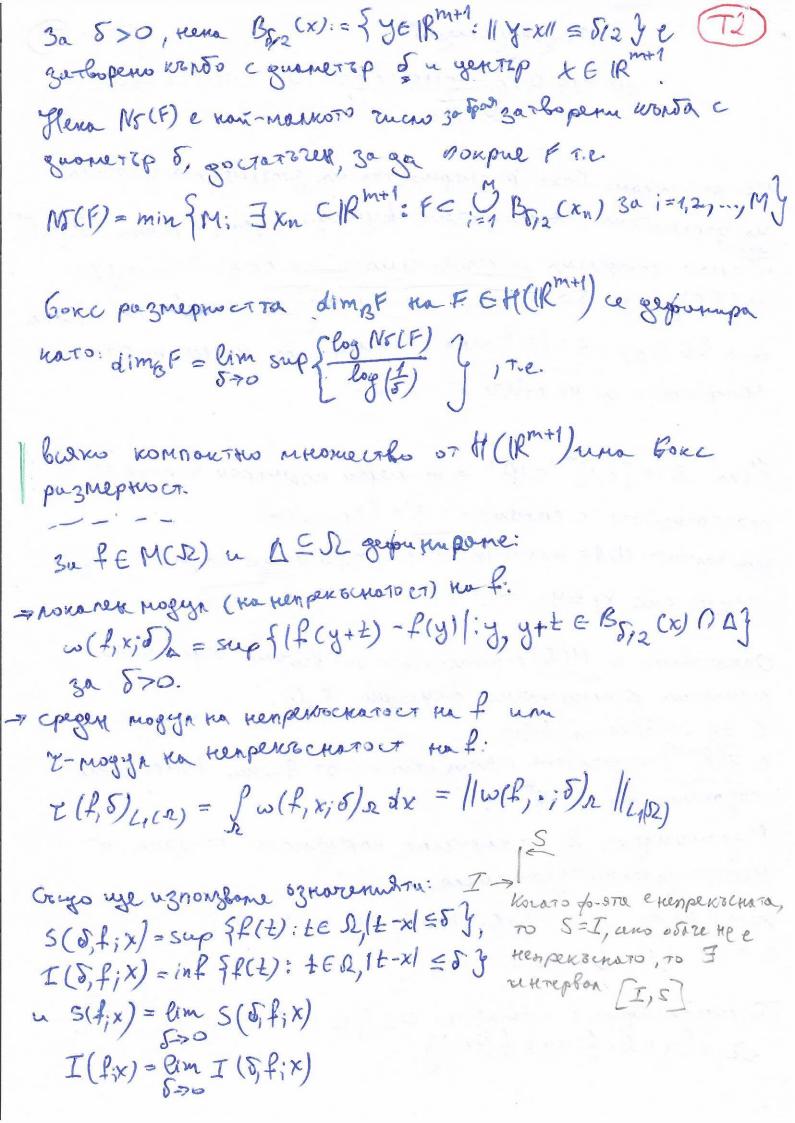
Озновоне с М(Ге) прожествого от вини ограничени изперит реализноти фуккции в 52.

t H(RmM) og toroband mesme etbors or Burn kompontine nog putermente the 12mm.

Мултинденс к ще коригане норедената т-орка от неотринательной ует често:

k:= (k1, k2, -1, km), j=1,-1, m, kj >0 ~ kj &2. e= (1,-1), 0= (0,0,1,0).

Hera mynomungenc i etawol, le 05 ij 5 n-1 30 j=1, ..., m u Sej:= }y & Se: fi = y & fi (ite) }



T3

Burn e: T(\$5) (1) = | S(\$1, \$i.o.) - I(\$1, \$i.o.) | (4/12)

tt ∈ Rm oznarobone: Ωt= ξx ∈ Ω: x+t ∈ Ω}

Departupone unterporte Mogy to tempeworns To the tolkongs nponegrulon no creopon twoms:

w(f,5) (,(n) := sup } (|f(-t)-f(-)||_{L_1(x)}: ||t≤of,

Kpu ur reum mogen no trenpendent To ct e: $\omega(f, \delta)_{L(\Omega)} := \sup \{|f(x+t_0) - f(x)|: t \leq \delta \}$

1 Nectes le busugaite

 $\omega(f,\delta)_{L(x)} \leq \tau(f,\delta)_{L(x)} \leq \omega(f,\delta)_{L(x)}$

Dego. 2. Persunder apagolana gonèreallata apagouna) G(t) ha

 $G(f):=\{y\in [R^{m+1}: (y_1,...,y_m)\in R_j\}$ $y_{m+1}\in [I(f;x), S(f;x)]$

HEM(R), $\exists G(f) \in H(IR^{m+1})$. Ano f e respensement $b \times \in \Omega$, 70 S(f;K) = I(f;K) = f(x) = G(f) us grapma to mata $(K_1, ..., X_m, f(x)) \in IR^{m+1}$. Ano f e respensement $B \Omega$, 70 terms f or f

Troba time (GCP) = max Sm, ma1-Ly.

Dokazarenestos Plena No (G(fi)) e munumonsunt sport konsa c guaretteph, goctate ven ganoupue G(fi), ungers fi e pectpunguara to f & si. Hi gerprikupane Mi = -[-h-1 w(f, ri)];

> to crp. 17 u 18

305eresures 2: Nou mil, Ano bapuagneste tra le e orporturetta, resuren ga zonemm T(f, 5) Le [0,1] c bapuagnes 6 robfrata teopena.