10 πεκιμη
2 HORGER 2022 Γ. 13:42

Orpegeneue crampos unalegada

] E - uzuepuwe unarceembo, E C [R]

def

Koherrag cuemena τ = { Ε; 1; 2 μενικοκο μυσιες Ε μυσιεριμών το λιορβαλιμ : i = 1, 2, ... i μασυβοεπία ρασθιεμιών

1 μ (Ε; ΠΕ;) = 0 : i + j

HUPLINGS WE MORGANY: [=1,2] MINYONGS SUMMENTS

1 M(E, NE) = 0: i + j

1 Le = E

1 Le = I L

Musembelo que un mensara Puntana.

Mosas objectivas mepor ligios minerprepiena.

Le un merpar pober rigios

] f orpegeveure ha uzurepunan urrorreembe $E \subset \mathbb{R}^n$ $T = \{E_i\}_i$ - pardueune E $E_{\tau}^* = \bigcup_{\mu \in \mathbb{R}^n} E_i$ Ecul f heospanivieria na E_{τ}^* , morga $\forall M > 0$ norcho buopani $E^{(i)} \in E_i$, rimo dygen beprio $|\sum_{i=1}^n f(E^{(i)})|_{M \in \mathbb{R}^n} | > M$

Ecul f-unnerpupyeur ha unoxeembe E,
mo JE_CE, ME_=0, mo f.orparuneur

Ecu f-merpipieua ra onkpinou unorcembe,

2+ 2'= LE'y mazibohom brucomien b t= LE; b, ecur y E'er'] E; e t: E; c E; u sostranom T>2'

Choucmba:
1) Earl t La' u a' La', no t La"

2) Monour polepun

3)

It-dynagua ha uzuepunan E C R,
eau y E I crow grogub neuroe
pazonenne, qua romoporo t reorpanurena na obseguierum sienenmol
pazonenna novorumentroù meper,
mo f - ne unmerpupyena ro Punany
na E

n Menyonne repereneur h-viephoro zaukuymoro kybo C Omkperneur unoncecmbar uneem navorameneryo Murcurolo viery Mopgana.

Cuegembre

Dus mosoro onkommoro usuepumoro unarcemba

I chaus gragno menkoe pasonenne, bee membruna

kompporo umerom ranonementrigio mepy (µE;>0)

J bearon ujuepundio inforcemba econt pazonema exons gragno manon menkocomi.

I $E \subset \mathbb{R}^{n}$, E-uzuepuno $y = f(x) = f(x_{1}, x_{2}, \dots x_{n}) \quad u = f(x_{n}) = f(x_{n}) \quad u = f(x_{n}) \quad$

Jf(x)dE = lim 6

 $S_{\tau} \leq I_{\tau} \leq S_{\tau}$

Yucuo A hazabasan uumerpauau Puusaua

om tyrkeyuu f no uzuepuusuug viroreeemby $E \subset \mathbb{R}^n$, meeuu kakola oti nu otiva nocuegobaneusuocut $\tau_n = \{E_i^{(m)}\}_{i=1}^{i}$, $M \in \mathbb{N}$ u kakola oti nu otiva nocuegobaneusuocut $\tau_n = \{E_i^{(m)}\}_{i=1}^{i}$, $M \in \mathbb{N}$ u kakola oti nu otiva $\{E_i^{(m)}\}_{i=1}^{i}$, $\{E_i^{$

JE Wzwepuwo, EcR

T= {E;}-pazowewe, EcE, ME=0

Ecu f orpawiena na E, mo

Punawob unmerpan Jf(x)dE cyczembyen

Jim Ot(E)

Tpu Imou, ecu on cyczembyen u poben Jf(x)dE

h - Henpepubria ma komnakme, mo ona umerpupyana ma men

h Eau f-orpanivena na uzuepunou konnakme u unoncembo eè morek porzpuba unem nepy hyu, mo ona unmerpupyena na nen

] Fc [R, E-uzuepunoe

Chaumba kpammono umunenpaua

Obouenboi.

1)] E - uzuepuno, no JdE = ME

2)] E u E*, f-orpanimenta u immerpipenta na E, morga ona unimerpipenta u na na E*
3) Aggunibioens unimerpara no impreembair

3) Aggunubrocus rumerpara ro inforcecubair] E'u E'-uzuepurus E=E'UE'

 $E = E \cup E$ $E' \cap E'' = \emptyset$

f-orpanyrena u unmerpupyena na E, morga $\exists \int f(x) dE' u \exists \int f(x) dE''$ rpurein $\int f(x) dE = \int f(x) dE' + \int f(x) dE''$ 4) Luneinscome unmerpana $\exists f_{1}, f_{2} - unmerpupyenen na E$

I f_{1}, f_{1} - unine spupylium wa E $\forall \lambda_{1}, \lambda_{1} \in [R]$ $\exists f(\lambda_{1}, f_{1}, \lambda_{2}, f_{2}) dE = \lambda_{1} f_{1} dF + \lambda_{2} f_{1}$

J(λ₁f₁ + λ₂f₂) dE = λ₁ ∫ f₁ dE + λ₂ ∫ f₂ dE

5) εαμ f μ g - μμπερμημμικ μ σιραμωτεκει

πα μεπρερειθμου μιμοποεοπίε Ε,

πουσοι μ f g μ f_q (