L4. 2.11 Wesny durly (70, T: February galangeri K(R) kulani o provindule E Weiney Abericane rederges X buloni B(xi, E), i'=1, ..., n Karidy dement K(X) to shion every A SX i dla migo patrze, lettere bule B(x; E) nei boya a A Many with programadeouni KUDA (is 1 " in: B(KiE) MAJ @P(f1. in) The doublego $I \subseteq \{1,...,n\}$, plus shirty 4 muchodia in I, expli $\bar{\mathbb{D}}^{-1}(\bar{\mathbb{D}}) = ?$ dematidh A, B & E 1 (I) , to dr. (A, B) & 2E Dh a & A, B ist) B(kile) 3 a ~> where \$(B) = i , to (360B) B(xi(E) = 6 Wherey d(a,6) < 28, water tage d(a,B) < 28. Indepense: (4600), d (6,A) < 28 dy (A,B) = mox(my d(a,B), ny d(b,A)) ≤ 2 €. Dla cloudrage I = {1, -, n } , lettery laxy or In \$\mathbb{T} , my him A_I t. 2 & \$\bar{D}(A_2) = I . Z lemels , ze J-1(I) = BdH (AI/2E) Zestern $\bigcup_{\underline{\Gamma} \in T_m \, \underline{\Phi}} \underline{\Phi}^{-1}(\underline{\Gamma}) = D_{om}(\underline{\Phi}) = K(\underline{V})$ $\underline{\Gamma} \in T_m \, \underline{\Phi} \qquad \bigcup_{\underline{\Gamma} \in T_m \, \underline{\Phi}} (A_{\underline{\Gamma}1} 2\underline{\epsilon})$ Menny write Amirone groker, K(l) kulomi wely opron 2E. Teili chenny o prom. E, to wystoricz zaczeć bowtroligó od gdorycia X bulami o mon. Ez zamiest E. table: Koidy ving Vir prosedrami cathania ogrowsomy (X,d) ma policing Carely lego, Ded: 10 Wich 870. Shortmying voiling (xn) 6 (3N) (Yh, 8>N) d(Gh, Xn,) < E (Xn: n=N) & B(y=1 2)= X. Da boilige i patrie na = {new: xn & B(xi, \subsetence)}. Jeden 2 I. muse by morboning,
to inacrey N = V. I. 1 < 0 (9)
Was him B(xi) sowere next wate represent xn - 2 mich I = {nel : xn & B(x, b)). L° Bedring broc E= 1, L∈N. L' Bedoring trac & = I , white of (X (1)) being the party halis promission & (jet 10) tel, 20 ((1)) and south Kg the E = \frac{1}{2} ~ 2 \left(\times_n^{(1)} \right) my hisom policing \left(\times_n^{(2)} \right) lesiquy myang buli o gram. I (job er 96) tak, sie (Kn (2)) once sorina Kold of Make in Comple dla L = AV ild fortymust is manner of mybian judaing (Xn(L)) a being or E = £ 2 (Xn) wrybian judaing (Xn(L)) a being or genry led o prom I (joh v 10), no souringary x ((-1) Mon system vigytor (xn) 2 (xn) = 2 (xn) = ... Trik ": bostonyk podażeg $(k_n)_n$ nasteropicy $\hat{X}_n = X_1^{(n)} \left(\sim s dyniska \times_k k_n^{-2} \right)$ DIALEN (Rn) nothing (Xn) n , wobec togs (Xn) no L nistri w yenny bute opnou. IL/ stad d(Rn, xm) < 1 dla n, m > L (YL) => wor. Canchylego na (&) to (\$ \$70) weame L; £ < \xi i where dla n, m > L d(\xi_n, \xi_n) < \frac{1}{2} \xi E. 2.12. T: (K(X)(dM) - 2000te Lenat: K(X) - systra, mot: K(X) - supelna, (Temerik: (∀ (An)n = K(X)) ((∀nAn 2 Anog) ⇒ lim An=()A Nich A = NAm. Dla dondrage E70 nozwosing NE (A): E- otocomi w X shime A CX $\mathcal{N}_{\varepsilon}(A) = \{x \in X : d(x, A) \leq \varepsilon\}$ -otworty, to X + s d(x, A) jist ciagling funkyo ma X, a NE(A) = preciodores (-0, E) proce to fralego (leb movedn. 1, no produte": If y & ME(A) (F & 20)
B(y, 8) & ME(A) 7 : m. 8= E-d(9, 100) i $\Lambda \subseteq N_{\epsilon}(R)$ with to reduce get observed relonged X, with 2 wasteris X 3 relatives observed the street of the 1° NE(A) = Us i pose type Us remove she will to bine negletary 2 mich ~ 3 AN Z Am dla An Elles compli NE(A) U AN = X => AN = NE(A), 2° NE(A) & Us , way Us = { An: netage is X=UUs = AN E naydalony An EUs = AN=Ø (9) loo AN EKCK) Zostern Ma new rago NEN, (400 11)A = An ENE (A) => Market togo A A A Verny ciay loudy up (Bn) = +10/2 much An = \(B_k \) (An GK(X)). 2 derector, stone And, to Andre DA = DUBL Zonsering, zi dla E>O (3NON (2 won. Gowchylage)) Z-si ((Yn,m 3N) dy (Ba, Bn) < E => Bn = NE (Bm) 1 Bm = NE (Bm) (m>N) B = NE(BN) => UB = NE(BN) AN= (BN) SEX : d(K, BN) SE BN = AN E VE (AN) i poduloni dan: N dy (Bn, An) EE Polastolismy = dy (Bm Am) = 0, will An and A= MAn, to Bn ms A

Zotem K(K) - zworte. W