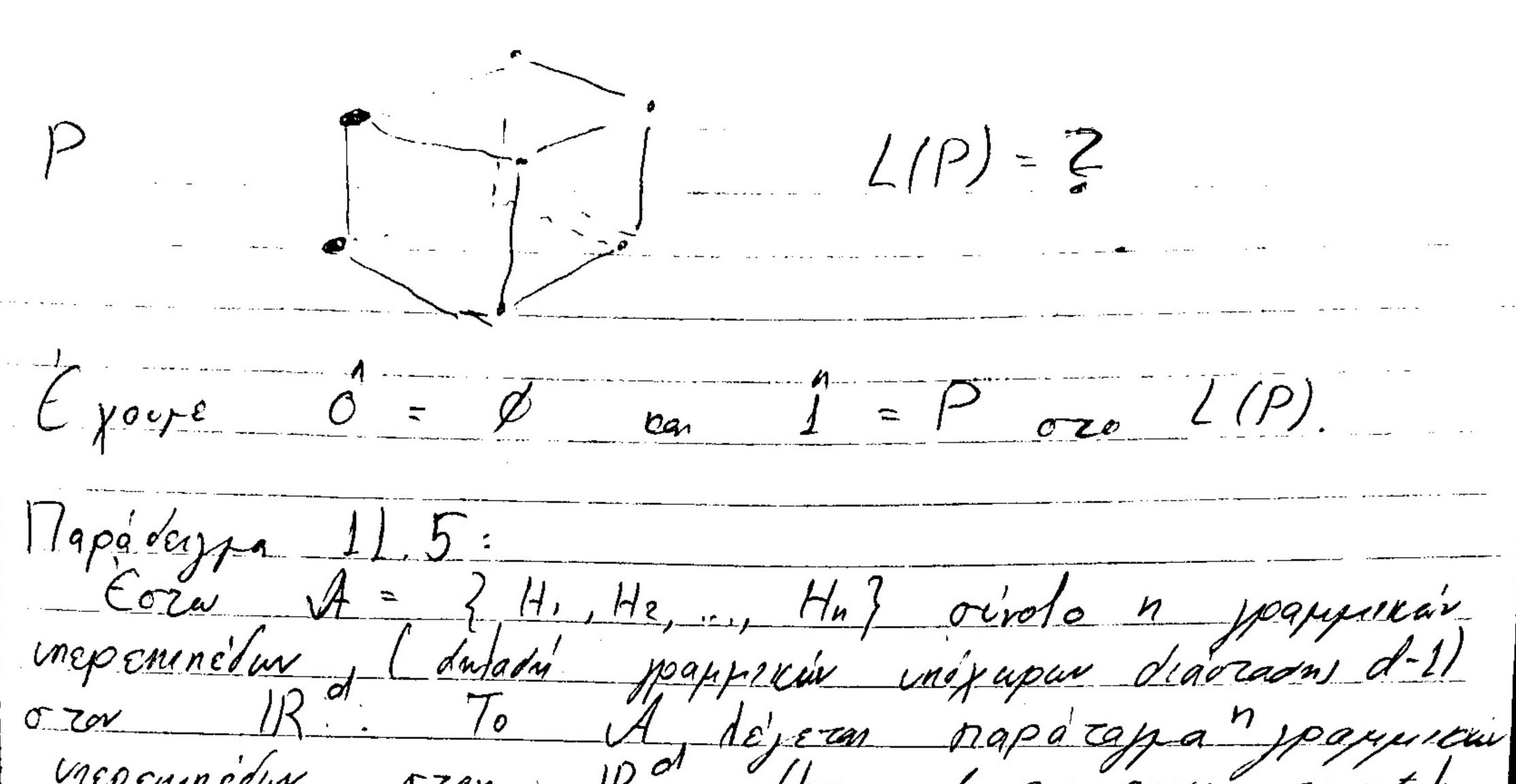
Zurduaozirá, 17ept. 14/11.

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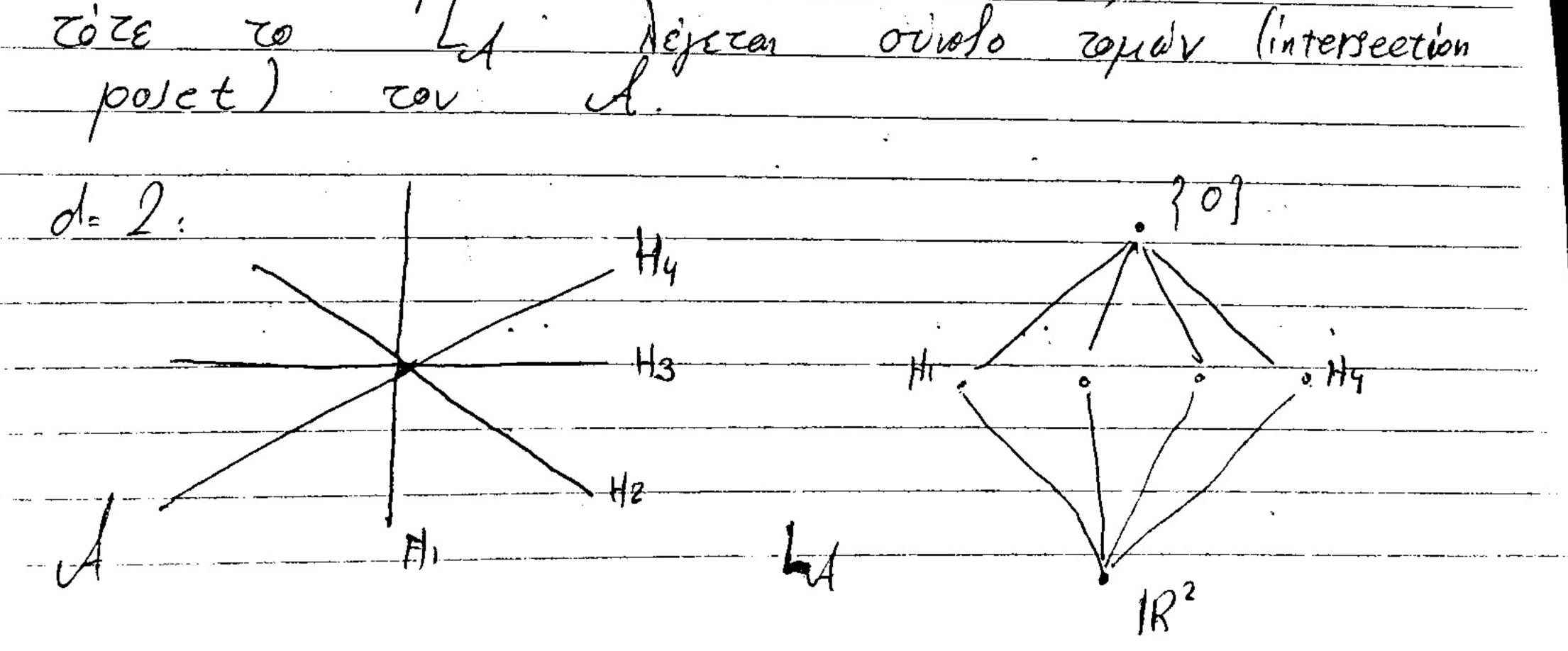
Av mappen rézono zeP, tote edras provadincé. Las occubolilezas pre xVy (aka joint) antiozoixa aka Jp 107 0j déjecar ourdespoj (lattice) KO DE otox ei uv XYEP EXEL Kazwzazo avw andrazo raw Tapadei para: EYOUV -//- $\frac{11_{apardes' para 19,2: K_{u}O_{E}}{100} \frac{1000}{2} \frac{1000}{100} \frac{1000}{2} \frac{1000}{100} \frac{1000}{100} \frac{1000}{100} \frac{1000}{100} \frac{1000}{100} \frac{1000}{1000} \frac{1000}{100$ H Bn eiver oirdeoper, me $x Vy = x Uy, x \Lambda y = x \Lambda y$ $y_{1\alpha} X, y \in [n]$ It pep. digestry Ln(q) since objector, we X V Y = X + Y, $X \Lambda Y = X \Lambda Y$, $\eta \alpha X, Y \in L_n(q)$

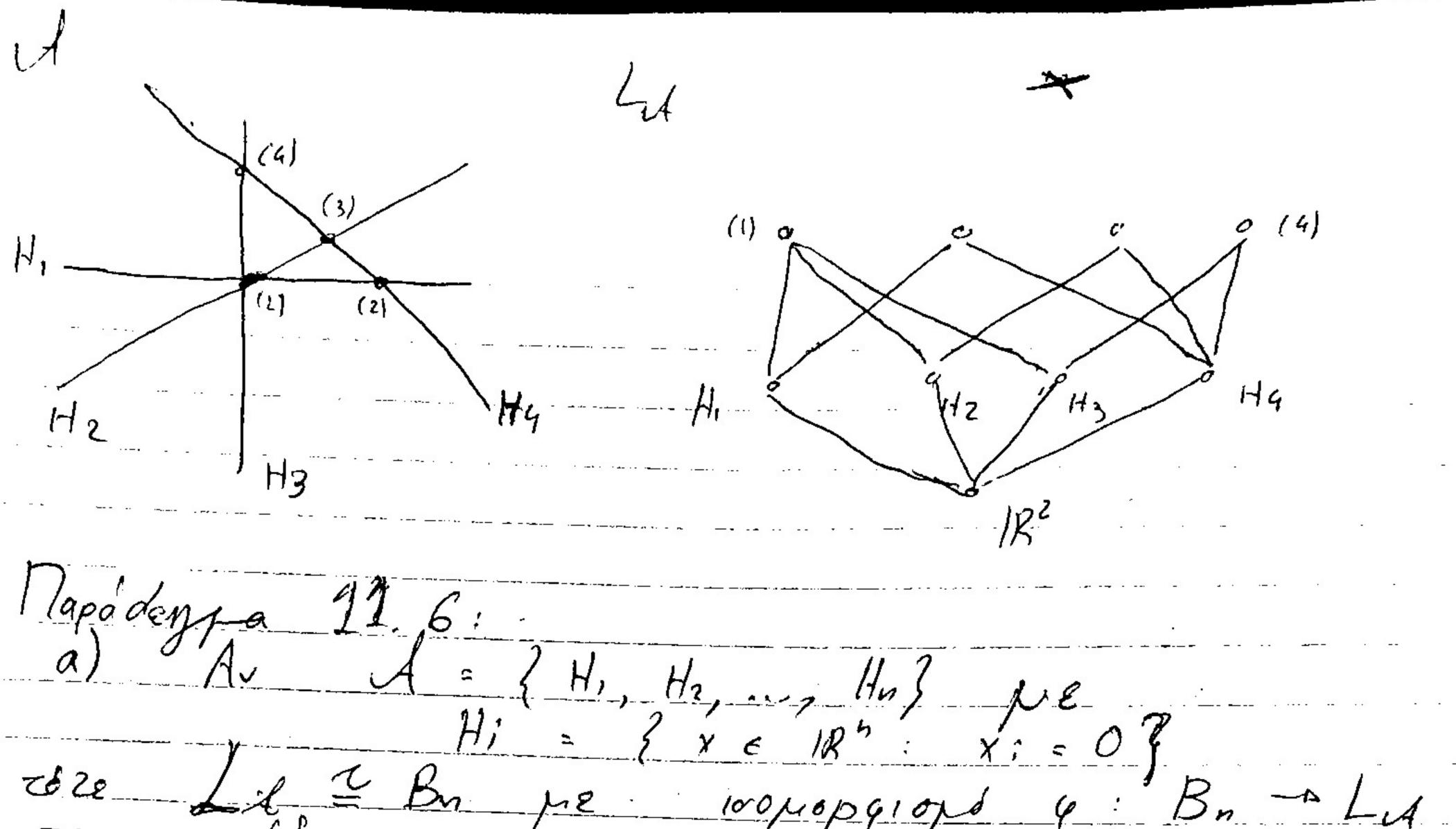
Ipéraon 11.3. a) Av to P Eiven nenepaopero, Exer pejrozo vzerx cio $J \in P$ ken unopyer to xAy provide ta $x, y, \in P$, toze to P eiven or underpoint b) Opinius, av to P eixer elayrozo ozonyero OePkar unopyer to xVy pra ola ta $x, y \in P$. a) Av o P Hnodertme a) Me enagagni ozo nhibos zur ozpixeiun zu BS, deixvoure de una'pxer zo auizazo razu propa 15 ja rade nerep. SEP, Stp. Mapazupoupe, zélos, δz $\Lambda S = x V_y$, lapadeura 11.4: To oivolo zur Neupour evoi ouvéeros an Merpar zou P la au Bolilezas - Jue _ 2(P). - L(P) (0, 5 aryo) 10, 5 ropuga) P. Alle

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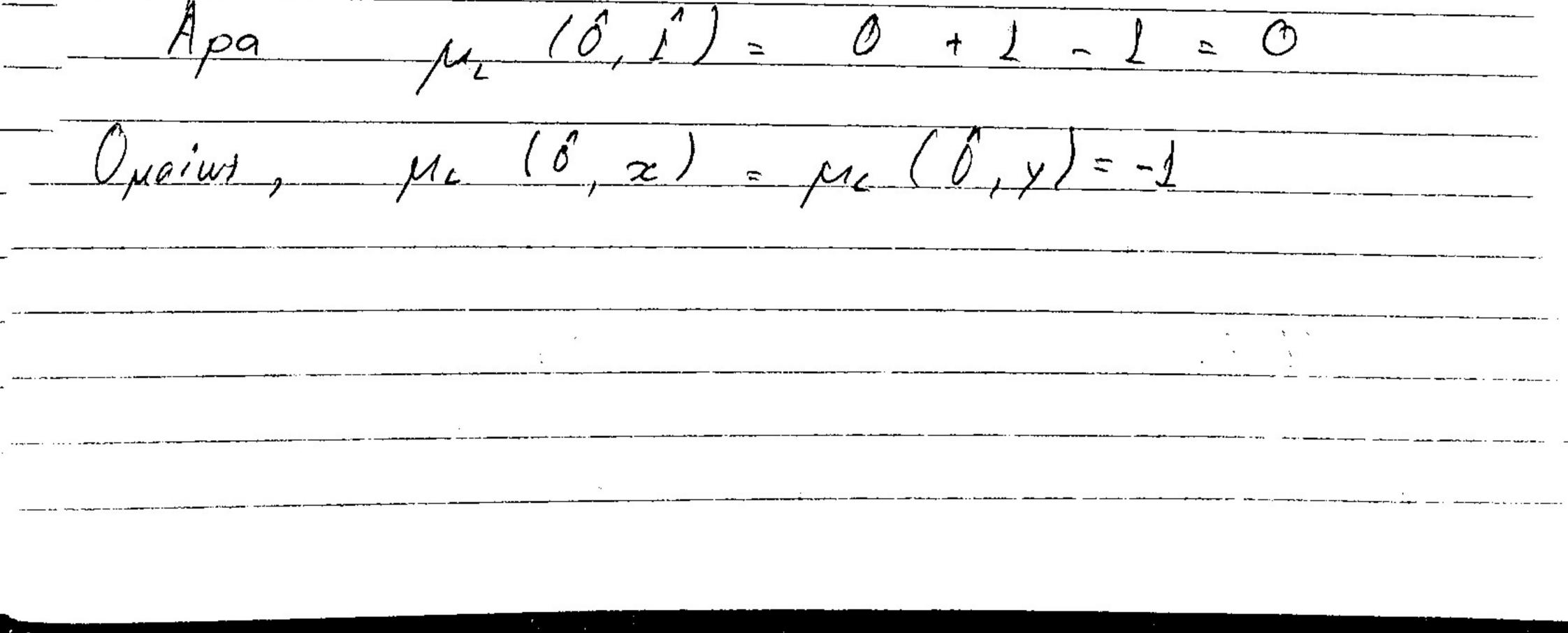
Viepenincour hyperplane arrangement! 5 Cor ourdo 0 ns. S $\subseteq A$ Ξ Jur Kentel Zopan inocrotur Zw IM Mepilling diaz .700 Th arriozpogon exterioroi, éxerrai pérso ozoizeioYEON 0 Tou Jay 10-Zes $S = \emptyset$ = 14 $= 11_{i=1}$ anorelai: ovideno, 0 LE VIELXNY $x_{i}y \in$ aggivica eiran Mep en neda \mathbf{V} Za. ovolo TO TE TO





 $\frac{1700 \text{ opi} \left[\text{star} \quad \theta \in \text{tortal} \right]}{\frac{9}{5} \left[S \right] = \frac{3}{5} \times e R^{2} : x_{i} = 0 \text{ gra} \quad i \in S^{2},$ $\frac{1900 \text{ gra}}{5} = \frac{1}{5} \left[n \right],$? x, = xz = x3 = 0 ? . Mx 241=x2=0] 2 x2 = x3 = 0] p - 1 x3=0j IR 3. b) $Av = \frac{1}{2} Hij = 1 \le isj \le n$ $\mu \in Hij = \frac{1}{2} \times e IR^{n} : \times i = \times j \frac{1}{2} = \frac{1}{2} i7n$ $\mu \in Ioo \mu \circ p : p : I7n = 1 = A nov o p fecas$ $\psi(\pi) = \frac{1}{2} \times e \mathbb{R}^n$ $\chi_i = \chi_j$ av v_j ore ide MERSI (Safer Kg DE 10 diap. [n] 200 223 {x, = x2 = x3' 12/ 73/1 13 2 X1= X3 = 72 $\{\chi_2 = \chi_3\}$ 1213

Av to P éxel d'aploto otopeio O O P(avioraixa, prépare 1), tote ta orogeia tou P nou rabintou to O Jéjoutan atoma, l'autéotojya, elleina nou rabintoutar ani to É, coataur). $x) = \sum_{r} (-1)^{r} N_{r}(x)$ (0, ànou Nr x Nnº601 norrolar του 70 Tur ozoixeia 10 \mathcal{X} anoig Za To Elvar æ. am qpa' 0/ TOU AL. X ar 49,6, c Ker Tore Vc 6 Ve \mathcal{X} a = Ь 0 VC -Ond ZE On r = $\kappa = 3$ an



Arodata: Fia xel éora flact= Z(-1) N2 (2). $= \sum_{\substack{S \leq X \\ VS = \#}} (-1)^{1S/2}$ $\begin{array}{l} \mathcal{L}_{\text{XOURE}} \quad \mathcal{F}(\vec{0}) = \mathcal{K}(\vec{k}) \quad (-1)^{\circ} = 1 \quad (\text{Kara' origination,}) \\ \mathcal{K}_{\text{VOO}} \quad \sum_{0' \in X \in Y} \quad \mathcal{F}(\vec{0}c) = 0. \quad \text{prance is } \mathcal{K} \in L \setminus \{0\}^{\circ} \\ \mathcal{O} = X \in Y \quad \mathcal{O} = 0. \end{array}$ Oézaye Xy= 2 ac X: Q ≤ Y} var Bpibraye $\frac{\delta Z \ell}{\delta (-1)} = \sum_{\substack{x \in X \\ VS = X}} \frac{(-1)}{\delta (-1)} = \sum_{\substack{x \in X \\ VS = X}} \frac{($ $= \sum_{\substack{(-1) \\ s \leq x}} (-1)^{1s} = \sum_{\substack{(-1) \\ s \leq x}} (-1)^{1s} = (1-1)^{1xy} = 0$ $\int a \leq y = y^{1a} \text{ wide } a \in S_{7}^{2}$ diózi X, 7 P (undipyer azope ac L pie a sy) Papadenna 11.8: Éarne L= Bn Kar Edre X= f?i?: Leisn} To advolo zur ardner my Br. Toze, jua XE Bis éxocuee X = VS jua reanoro SEX car S= ? i's: i ez? $2uenus, \mu(10, x) = (-1)$ Moppagnig: Av ro zelliof der airas 100 μe 20 $\mu a 2 \mu a$

 $\mu[0, 1] = 0.$ ZW NENER MEDILLY diazetappero 70 9 Jun. Tur. MEDIKAY 100. XEYON VERM O J(Y) elvas I Elvay our open per 0 = 0 1 = P I, VI2 = I, UI2, I, A I2 = I, A I2 Kan pa I, Iz EJ(P). Májioza <u>m claim zur</u> piepireur diazáfeur J(P) ocyiminzer <u>pie</u> exeivn zur <u>nenepaopirur</u> Empepiozireur oudéopuur (Dewpmpa Birkhoff). = 2 9