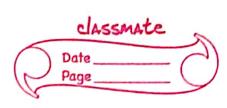


| | 1 = .A.3 Y |
|-----|--|
| | - H hou W2 elements. |
| | By sympting only lower triangular elements eu independent. |
| ζ 1 | elements eu indetendent. |
| | (sw + pr Tw); b = |
| | number of independent terms in |
| | Mersian = + == (W2-W++W |
| | itsigs ou 2. |
| | (00+ ; 5 =) W(w-1) + Wx2 |
| - | 2 |
| | 12 Hatoloi West 8 1000 W (1220 -1 +2) |
| Uo | orodad phropoid uno pez loro |
| | $= \frac{\omega(\omega+1)}{\omega(\omega+1)}$ |
| | 07 (0) + 8 0 < (1) 1 x 2 2 3 |
| | |
| | Number of independent farm in 7Erw-w |
| | c visit visi |
| | and TE |
| L. | 10-0 |
| 5 | Total tourns = W + (W +1) = W (W+3) |
| | 2 2 |
| | |

| | - Z= (2), z, zn) |
|--------------|--|
| Am 3 | 7: (31, 72, 31 n) |
| | The Maria Ma |
| | - Convex hull of x;= 2 of time, where |
| 7 | = Conver hull of 2;= 2 di=Jah |
| 10 X | |
| | Convex hull of 2:= 2 Bi Zi where |
| | 2 3 2 11 |
| , | station) = 1 obliga wing two |
| <u>(i)</u> | |
| | |
| | = Zdi(wTx: + wo) |
| nî nî | ement topholipal the powder |
| <u> </u> | 1= (x) = (w) zz + wo and |
| | = WIZBIZI + WOZBI |
| | (x (w+2(1-02) Biv(w'z; + wo) |
| | |
| | Cif 1- their wonever hully intersect |
| | and they are linearly separable |
| - Alexander | Then 1+ cu) in = |
| | f(n) >0 2 f(z) 40 |
| | 2 x=z |
| - 3- cv 9 | adjust 2 52hophar to ustanto |
| | f(n) >0 & f(n) <0 |
| wien | It which original a contradiction wird |
| | D 21 12 600 |
| | => The points are not linearly |
| (8+0v) | cu 1 - Sepanablet. a = must intel |
| a service to | |



| (ii) | As points are linearly separable |
|----------------|--|
| | V J |
| | Wm + wo >0 2 Wz + wo <0 |
| | |
| | => Z di (wTn; +wo) >0 |
| | 2 Z B; (w ^T z; + wo) LO - D |
| | |
| | The Also as conver duly internet |
| | Then, I di Mi = 2 Bizi - (2) |
| | |
| | Conditions (1) and (2) can not be |
| | Simultaneously satisfied as |
| | Simultaneously satisfied on f(Zxini) >0 le f(ZBizi) <0 |
| | |
| n _i | Thus we arrive at a contradition |
| | |
| | => Convex hully don't intersect. |
| | |
| | |
| | |
| | |
| | |
| | |