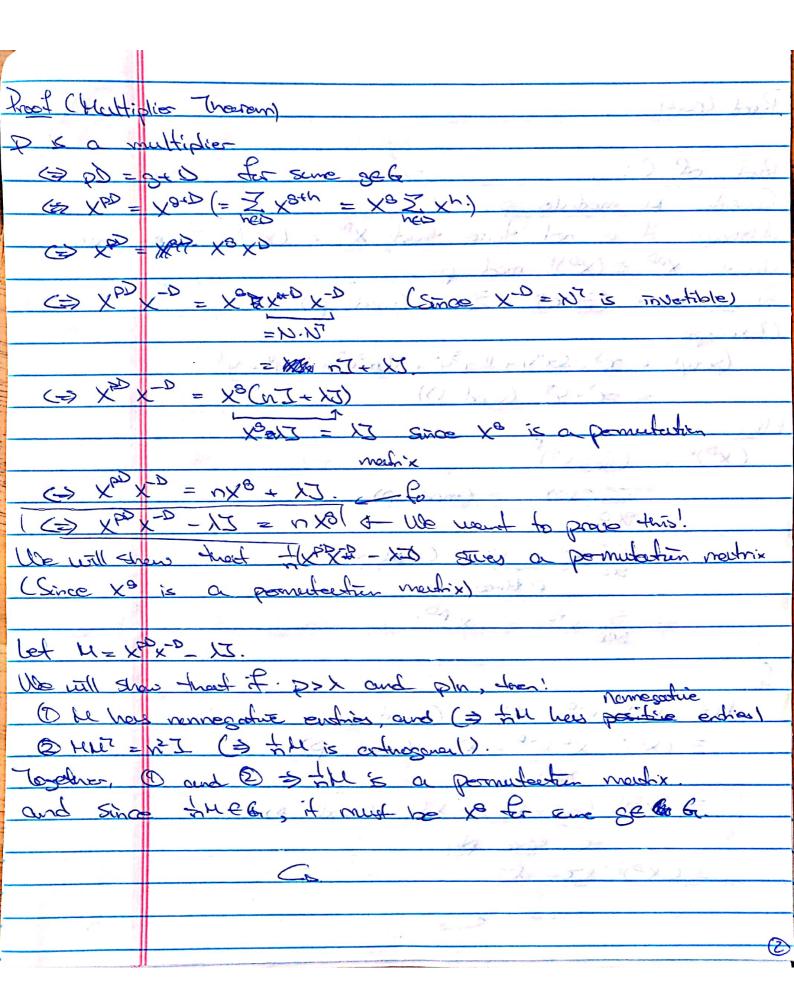
| · It shelp then  | and the second second |
|--|-----------------------|
| Xg Xy = Xatin  |                       |
| The state of the s |                       |
| Let Gr = Span { X3   g & 6 }   |                       |
| · & Or is alord under multiplicanten   |                       |
| (Or is isomorphic to the group algebra of 6)   | 20.05                 |
| - X8 are the only permutation metrices in &  |                       |
| The state of the s |                       |
| Par SEG, with Xs = Z(X8 E G  | war en it             |
| ∂es .  | A                     |
| Coechta: X-S + (XS)-1)   |                       |
| Take out the element in 5 and vegete than  | ر                     |
| Instead, X-S = (XS)7.  |                       |
| a in a levis menorial de la seconda de la se |                       |
| · X° = I   | <u>b</u> -€€          |
| . x6 = 3   | W                     |
| · XD = N + > Proof. WEDINIMINATED ZI = & I F   | a-6es                 |
| $(x^{b})_{ab} = \frac{860}{0.6}  (8)$  | స                     |
| Ireidence mashx  |                       |
|  | (2)                   |
| The same of the same of the same of the same of  |                       |
|  | 1                     |
| the second of th | 1. A. A.              |
| the state of the s | 4 47                  |
| The state of the s | a against Same        |
|  |                       |
|  |                       |



|  | II -           |
|--|----------------|
| Proof: (anit)  |                |
|  |                |
| Roof of O.   |                |
| Carisides Il modulo p.   | 4.0            |
| Althorn it is not true that XPD = (XD) it is   | true           |
| that $X^{DD} \equiv (X^{D})^{D}$ mod $D$ .   | X              |
| Recould thent (3xi) = 3xip (mod p)   | ×              |
| (Exemple!  |                |
| (x44) = x3 + Cx41 + 10x343 + 10x243 + 5x44 + 42  |                |
| = 25+45 (mod 5)).  | <b>3</b>       |
| Hool is a series of the series |                |
| $(x^p)^p = (\Xi_x^p)^p$  | 12 -           |
| $= \leq (x \otimes p) \qquad (mod p)$  | **.<br>*/ ~ >  |
| 9ED A CALL A   |                |
| $=\underbrace{\underbrace{\underbrace{\times}}_{X^{0}X^{8}}}_{X^{0}X^{8}}\underbrace{\underbrace{Cmod}_{p}}$   | <i>V</i> 5     |
| 200 P times<br>= 5 x ps = x pL.  | · W            |
| = 5 vp - x pl.   |                |
| SED  | ٠ . ١          |
| So,  | . W            |
| M= (x0/8=x-0- 12 Conod p)  | L+ J           |
| = (xx)p-1 xxx-p - 15 Conod p)  | 1/2 1          |
| NN'S   | (a) 1/203/     |
| = (X)P1 (~I+I) - XZ (cound g)  | 1              |
| =0, some du  |                |
| = CXDP1XI- XJ  | and the second |
|  |                |
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|  |                |

|   | 11                                     |
|---|--|
|   | Access to the second                   |
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|   |  |
|   |  |
| Proof: Carit.   |  |
| It follow that DD is a difference Set   |  |
|   |  |
| Ckey point! IgeT sich pg=1 (mod v) and ?  | 1-                                     |
| P31-P3=2 iff 2-3= qx  | 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| \$ # of ways to cente or as a difference  | 2                                      |
| PD Gx.  | 1. 2                                   |
| 3 th as a difference  | in D)                                  |
|   | 3 So F                                 |
| . XPD is the incidence mount of a symmetric   | 20.0                                   |
| $(J,k,\lambda)-R_{J}R_{D}$  | 2                                      |
| Also, X-D & the incidence muchix of a symmetre  | who is h                               |
| CUKN-BIBO   | 2.1                                    |
| - The second of |  |
| Trerouse: If No, No are the incidence mention of  | 2 (2055!-                              |
| by different symmetric (u, k, 1) - deston, then   | entra rila                             |
| - Uz No. Nz - XI must contacty Muz = 12].   |  |
| - Cand so @ follows?  |  |
| - TEVEN - (2X - 621,00) = TIMM  | - Louis                                |
| $(Z\lambda - z - \omega )(Z\lambda - z - \omega ) =$  | 19e                                    |
| - Connon it out   |  |
| - <u>V</u>  | 4. I.J.                                |
| - Open (?) Forbiam: We used that p>x to deduce god  | (ن جاءا.                               |
| - Cer us reporce port by the newiker andther of   | d Cu, pl = 1.                          |
| - aleady, the grant doorst were, and there are  | 0                                      |
| - Knem anderekamper!  |  |
| - Land Co.  |  |
|   |  |
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