16167 750 2567 - JIZIIS 2107818 1107 1, 29(X) - LPO(X'X) : NH (+ יופדה נוכים בתפת בו-כיווניל. X U = 0 ICK UFKLO(X) 12 7.11 :E  $(\chi \overline{\chi})_{\nu} = \chi^{\overline{\nu}}(\chi_{\nu}) = \chi^{\overline{\nu}}_{0} = 0$ Llo(x) < Llo(x x) 1551 UEL Bo(x x) (= つば、UHAP(xが)つつわフルミシ  $(x'x). \ \nu = c = x (x u) = 0$ 11/10 ir VU=0 2= x 70 1081 X 70 1017 Lluly Tx/cxle(X) & VEXPO(X/ 177 , P. 727 Les IX = Les (x x) 12.20 Ø 1 KG A 12 C1 CB/L IM(AT)=Les(A) - NOC THOTO BILD YEIRBAIL XEIRAIT OF PADIO < x, y > = 0 7/119-17 760 ON 13=1 671 701 X: ATU LOS 19.1 00 ,05 Mel :C=  $xy = x^TA^TU = (Ax)^TU$ 

Ax =0 1081 XELER(A) 15000 7h (Ax) Tu-so IMATELOGIA -P 11617 12 L'S 10 I'S 2 FIR(A) - mol 1/2 := 2 214=0 = 7 (1 u) = (A2/4=0 <= ZENDA, 10 116.7 701 12 7 15 708 1 [ IM (AT) = KRR(A) = 12 7 1 150 150 1 [ = 12 KRR(A) = KRR(A) = KRR(A) = (= 1071) IM(AT)= 124(A) + 10 116.7 711/LUID ED 21/21/22 2018 A 7= Xcc , D, (3 . DAR & PINO CH X -1 71ka(x) 1/1/2 JIBIL 20418 :53 10/ Be secil 1- 4 2) well of 101 11179 A 66 15 1-034 5 PINILA DOL JESO カントナラ ろっことにか 11500 DO (=> YE IA(X) (=> YE here(x) (=>

## (=) 91 Les(x)

B

4) H37 3-7 N(, 1,21 X,X LEGEL 78 (3.11 (2/10))
16) CUL (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2)

かって 大大 からにでし、こうかからします かった

W= Spull (4K+1,...,4), V= Spall(4,...,4), in PIDOD ITIL PIPOS pil VEIR ES 10 =5 P.RI 671, UEW-1 LEV Q

P(u+u) = Pu+ pu

Pu = ¿, v, v, Tu => u=k, v, + . + d, v,

=> ¿, v, Ž, v, T, d, v, = ¿, v, Ž, d, v; =

=> ¿, v, Ž, v, T, d, v, = ¿, v, Ž, d, v; =

= Z div; = u 17, pu-u 10 1772 6+7 68 10 6  $Pa \cdot \underbrace{Z \cup U \cdot Z B \cdot U}_{j=1} = O = \sum_{j=1}^{N} \lambda_{j} O$   $\int_{J} A \cdot \lambda_{j} A \cdot \lambda_{j}$ /IMOLAISK R= VOW -P MIDA = 10772 1/2 0 R 19 0 1/2 1/2 1/201 PU=10 VEV 65 10 1120 201 10 10108 It (II (IL 0.00 TIII) PU=U 177 P = P P - Z V; V, T. & V; V, T =  $= \sum_{i=1}^{k} \sum_{j=1}^{k} \sum_{j=1}^{k} \sum_{i=1}^{k} \sum_{j=1}^{k} \sum_$ 6 8 16.2 2 = Z V. V. T = O 28 PO1 (U (I-PIP = IP-P.P =  $P - P^{2} = P - P^{2}$   $= P - P^{2} = P -$ 

 $X = UZV^{T}$   $X = UZV^{T}$   $X = UZV^{T}$   $X = UZV^{T}$   $X = UZV^{T}$ 

X = U Z V'  $X^{\dagger} = V Z^{\dagger} U^{\top}$ 

CHICL, MC111 9. XTX RECT 11/58 BU CALRETT.

XTX = (UEVT)T(UZVT) =

=  $V Z^{T} U^{T} U Z V^{T} = V Z^{2} V^{T}$ , I) OI TH 136 | 36 | 136 | 500 | 717 0 175 | 6 ( $X^{T}X$ ) =  $V(Z^{2})^{T}V^{T}$ 

 $(5^{2})^{-1} = (5^{2})^{-1} - (5^{2})^{-1} = 5$ 

 $(\lambda^{7} \lambda)^{-7} \lambda^{7} = V \mathcal{E}^{7} \lambda^{7} = \lambda^{+}$ 

EN 17 ( CIEU); LU L'EST C' PU CILLE SE L'ESTE

SP- $n(2_{11},...,2_{1n})=1R^{2}$  .... n = 1

7272 X => Rugh (X x) = d = Rugh (x) = s 72 72 DP => SP ugg (21, 24) = 18 d 120 722

7000 X X => SP-4(21,..., 21 = 18° ) [M210]

4.) Ail secric cfe c. cg ster lead distill は 1つか 68 いつでいるいいことはままち 141 41111 1777~ SKORD & JK 11634 23.0 7051 : MODE クロラクラ フロショル フレレベック タド リンク つりょう・ク かんつ CI TIDD IT IND T SK CORPACT SUO 5 = ( 50) S= diag(0,...,00/ قا در انهام دو بررا که و دردی (عاد ع...) اردم PILO JLS, X & P. 7512100 PODER DE 1717-12KD ( 2000 of ) 1 1/25 see see 1 Par, x 1/2 wexy - 5 pm = 51 cm/ = xy 一年できれてり 一日川コー りつける 2: = 12: 121. 18 120 E PE YOU JUTO 11.00 700 a 15150 7060 1 cell - Z ce? =  $= \sum_{i=1}^{r} \frac{1}{i} + \sum_{i=p+1}^{r} \frac{1}{i} = \sum_{i=1}^{p} \frac{1}$ = 114/ 10312 III = 114