> R=Par R= (Rt)(R,ty) => Pr==RPT = (Re to)(R1 tr) whee P = K(R,t) 1. R= RAR", t=ta-Rt, 2,4 (R,t)=(R2 to)(R,t)) # 等各次 2. P=(R,t), B=(R,t) - (X,)) サ K,R,ナ, 23 KPm=(R,t) \$ {(1,1), (R,t)} =(1,0), (1, t) (1m23) Ra=Ry2Rx Rx (1,0), (R,t) (2,0), (1,1), here compare one Ki(R,0), Ki(R,0), ⇔ {Pi, Px}} for robation any model. \$ {K (R, 10), KR (R, 10)} \$ {K(12,0), K(R,0)} 3,2 , { K(R,0), K(R,0)} =(RB, Rt+t) 25 B= (Rt) (Rt) HINE KARINKI J RAJ KITAK 3 let RM=RAT hee R= R+1 3/1,0), (1,5), where 5=Rt (P', R = (2,0), (R,2, t,2) 3 R\$ (1,0), R\$ (R,t) 4.{R, R3={(R0), (Rt)} 少(成,) (成,成生) 17 RAZ= I, tAZ=t POTO (2,0), (R.t) th-2= to- RHzth " RM=RA"

(1) or (1), where bis baseline. ~ NRTC, N, NRT(R,t) method 1: (construct & directly) hae to must have form where the NR 34 7 (2,0), (2, 4) (cts | 1(1)s | = | str) | sto) 6. S→N in 5. ff () Se-5. 护酒,路门 JAC D method 2. (use exponential coordinates) her sixes It have (L? R=1+DB+(1-0)02) O same as method 10, 126 2×02 (), U is the exprential condinates as + 1/2 x2 845° $1/N = \begin{pmatrix} N_1 \\ N_2 \end{pmatrix}$ 1.2F8×1

ne 26x00, ne 11/1 (front)

Proces 25.25

ひをかり

O let 2012 (b) if how others

五~3/13/ 7. Us exponential confinates, 4-64/1/21 $\sim N < \text{robigues}(v)$ $v = \theta(8)$

少天一(西西

Thori, chase 22, sit, 23 < plane (2, 10 x3) else, charse 22, sit. 25 = plane(1/2,1),3)

Retakes point by 0 around axis (1)

でしていってい X= X-Cx X-b- xx-Cx to=(-2,0,0) or (0, -6, 0) 8. P, P==(1,0), K(1,t) d= com-xs when hori. with some focus, i.e., fix-fiy-fax-fay-f here $p = (\infty, \gamma, d, 1)^{T}$ 30, sty, P=0p. S detro Pr SOINCE D. X. (G) 1) (X) = (X-Cx) (X) = (X-Cx) (X-Cx) (A+C2)/b = (A(<u>X</u>) where ()=1 @ har < 18/1,4/2 18/2,4/ Gx < P(1,3), Cy < P(2,3) be -P2(m,4)/P2(m, h) Ca1 < P2 (ig, 3) - P7 (ig, 3) he hon? 1:2. feP(1,1)

2. Symptical projection

22 (₹) →(4)

1,2
$$(\alpha, y, z) \rightarrow (u, 0)$$
.
 $(\frac{2}{3}) \leftarrow ||(\frac{2}{3})||^{-1}(\frac{2}{3})$.

. UK- r. tola (3)

 $\begin{pmatrix} \dot{x} \\ \dot{z} \end{pmatrix} \leftarrow (x^2 + z^2)^{-\frac{1}{2}} \begin{pmatrix} \dot{x} \\ \dot{z} \end{pmatrix}$ $\begin{pmatrix} \dot{x} \\ \dot{z} \end{pmatrix} \leftarrow \begin{pmatrix} thn^{2} (x, z) \\ \dot{z} \end{pmatrix}$

$$U \leftarrow \Gamma \cdot (\pi - \varpi^{\perp} \gamma)$$

 $(, (\stackrel{H}{\sim}) < r(\stackrel{H}{\sim})$

 $(u,v) \rightarrow \begin{pmatrix} x \\ 2 \end{pmatrix}$ $\binom{d}{d} \leftarrow r^{-1} \binom{d}{d}$

 $\begin{pmatrix} J \\ J \end{pmatrix} < \Gamma^{-1} \begin{pmatrix} J \\ J \end{pmatrix}$ $\begin{pmatrix} J \\ J \end{pmatrix} < \begin{pmatrix} J \\ J \end{pmatrix} \begin{pmatrix} J \\ J \end{pmatrix}$ $\begin{pmatrix} J \\ J \end{pmatrix} > \begin{pmatrix} J \\ J \end{pmatrix}$ 23 (4) > (4) (4) (4)

 $\begin{array}{ccc} & \mathcal{U} < \mathcal{R} - \mathcal{U} \\ & & &$

1.3 let 00 - (g), y=-0,(g) l. trapezoidal distortion of tilled image serson given Bx, By 17 > Px=e2x=(1 Ry= 0 = (0) AT R=Ry Ro 1,4 83.83 83.83 JR=e4=(8 8 where P2 = (P3 R3 18(1,3)./\T-= PST PT P= given $u = \theta(8)$ 18; T= BR/80 小高 SINK. (D) 18 (c.3) 3.7少时间 Some to the (5) STEP SE

=> T=PR=PRR F=(R3 R3-R3)

3 A= (51 51 514

Some to bell

A A (512 th)

B ST - ROBE +

2,3 Mer.

(nx(dmn))x(dm) = nx(dm)= $\Rightarrow \upsilon' = \alpha \times \langle b \times (1 \times n) = b \times n \rangle$ AERMA A= (A1, Az, Am) ald, U, WER, XERDM Vi = (Aii)Xi < Rmxn more axis $(v') = \begin{pmatrix} A_1 \end{pmatrix} \begin{pmatrix} \times \\ A_2 \end{pmatrix} \begin{pmatrix} \times \\ \times \end{pmatrix}$ 2. U.O,WER, XERM $v_i' = \alpha_i X_i^{\mathsf{T}} \in \mathsf{R}^{\mathsf{IM}}$ X=(X,X,X)=X $X=(X_1,X_1,X_6)^T$ V=(0,14,14) ⇒ U'<Rbx(mxn) MOREONS ANXI AINXI (Apx X) AlbXJ AmbXJ (\ U'= bx (mxn) 3. Y=X:H", y=tlx, x=tx(4), prog? B C' = (\$\frac{1}{2}) = -wgr 1/4 + wgr = (By) XT < MXN where V=(", U, ...) = REX(MH) X=(", x, ") = Rbm (Frent) $\bigcap_{i} \sqrt{i'_i} = (x_i)_i \text{ mxn}$ W= [/m HP/AP Save

$$= \begin{pmatrix} V_1' \\ V_2' \end{pmatrix} = (m-1) \times b \times (m \times n)$$

$$(\frac{\mathcal{Y}}{\mathcal{Y}}) \cdot (\frac{1}{2} \cdot \frac{1}{2} \times (m \times n))$$

$$= (\frac{1}{2} \cdot \frac{1}{2} \cdot \frac$$

$$= (m \cdot b) \times ((m \cdot b) \times n)$$

$$= (m \cdot b) \times n \qquad (from 2)$$

Where
$$\omega = 1/4m$$

ie, s折, i并统. 1. Y=960, 9=K=(Fz G) 12. Y=(1/4)=(f1/2/4)+(G) hare Y=(1/3-), X=(2/2) 17 = (F, F)X+(G, C) 1> /= (5/5)(2/4)+(C) (2 2 1), otherwise 13 = (69)
(8 3 \$\forall = (500) = \forall = (60) = (80) = \forall = (60) = 少数条 = {(05x,1000001), fixs. = { (0 5/4 10), fxs. 15 not fix agent notion. 17.1. dy df.15.0.0) Affifica,a) a=2xxx, a= 12+2x12 b== pra+pa, +3r+srr bi= 900+201+5184514 b=HGr+Br+4h Ag= 1+ A112+ B214+ b310 的后必物。 a= r+2x 2,2. X=(%), h=4/k N - Kath

一十一一十一十一日 23 A ((k,kk) + to 8 8 9 11 A(Pi.Pi.Sissesy) 大学(本女子子)(1) 2 de + (400,0) =(k+24x+34x+)diz) (3) da = (200, 200)

To [2]

加品水

(db) = (db, db), amortente axis 2, 46 (loxy) (r + 10) (lox x 3) (lox)

are elementatise,

> WAO = (WOT), vector . A. vector 42. right= unga, tunago+ ... left= a,, Mrd, + are Wr2+ 111 4. WER", VER", AER MAN 1. du = (W -W2X1) T = WX, W = (1)= w(1-u)小町一時 XER, 3,2. W= WZF 6. Y=18x+b, yeR", beR", SCERT, ACRIMIN 8. y=Ax, x=\(\frac{1}{3}\) 62 \\ \frac{dx}{dx} = A, \\ \frac{dx}{dx} = 1 7= jkn=jco/plodulx) 72 dbs = (2) nx(H), ITS (H)X(H) > dx, dx, dx = km/+jnk/+jkv/ MS.R. XER" 5. jiker, YER", DER", AER "AN ax; = (8)=(1)=40 x = (2) = (2) = 4x 2×=×(2) => de

A=(BC) = w(1-v).A.(1), w=1/4, b= (a, a, a,), ω=1/χ Solve: , to B= (a) A (A) An) 高一個大學 8,3 FM=3, n=3, $= w(1-v) \binom{B}{6}$ (= w(B-Ub) du = Wbx1 (B1x(m-1)(m-1) - (bx(m-1)x1 = W(B-10b)) ((hu) (hu)) pg ((hu) x | x | q. Solve: We use u, v instead of U, V. = W(Qu-UBSI, Qn-UB) Qu - U2031, Q22- 16921 Y (J(mm)x1 X1xn)mx(m·n) 9. XER, YER proof: Jennyx 2012 = $(yx^{\prime})_{(x(m,n))}$ 10. Y Lam (Lamy) WIXN) MX(min) =(\\\)+\\\\)+\\\\)= = (Yem)x121xn) = i.e., Youn (I.vec 301) mix(min) Or? V(Jangel XIXA) $= (Y_{\nu} \text{vec} \mathcal{N}^T)_{b \times (m \cdot n)}$ = (yx) (m·n) (1)x7/mx(mxn) I Inomial "Syrian

 $= \begin{pmatrix} \cdots \\ y^{T} \\ \cdots \end{pmatrix}_{b \times m} \left(\mathcal{A}_{(m \cdot m) \times I}^{\infty_{[p \times n]}} \right)_{m \times (m \cdot n)}$ Profit Yen (Ifra) XIXA) MX (min) = (YT(Ifringxp X1xn)mx(min)) 11. y=thx, x==h("), y=h("), $= \left((yx^{r})_{1\times(m,n)} \right)_{b\times(m,n)}$ = (Yemx/XT) Ex(m·n) DOCK", YER", HERMAN $= w(1-v)^{(m+j-m)x} \mathcal{K}^T$ [m-j)x(m-n) (from [0] = $V_{\text{bxmx}} \mathcal{K}_{1\times 1\times n}$ = YEMXIXYXN = W(1-0/m-1)xm (2/m-m)x1 N1xn) mx(m-n) = (see previous method:she feature) (m.n) (m.n)) = (1/0/dH) = (m-1) (m.n)) 11.2. solve: Ometholz: stae batch の新一部新 爾在 kj=1, m,n=3 #: E3 = W(x10 -0x7 0 x7 -0x7) 12. YERPM, XER", AERMAN from 4 (yix) = YAx = 6x1=6 = (Yenyx X)bx(mi) Aute = (your) A we = ((yog), nec. A.de = ((5:8)x()x()= here w= 1

= W((1 -1) (m-1)x1 XT) (m-1)x (mn) dH = W (1-0)(4H), mat & Gron (2) (A,2 solve: (A)x=(2m)宣配m=((Ax)) transge (Ax, Bx) 杏.gva T=(A,vec, B,vec) 13. y=1k, x=(4), y=1k(7), DER", YER", HERMAN, 14. A, B, ERMXN, SCERT H=H(M), h<R, 少(死, 是) 16. T=(A1.18c, Az.18c, A1.18c) < (Am. 18x), (from 14.2)
At < Rmxn, Y < Rbxm, 15. Y=Axtb, Y < R", b < R",

> (Y.10-87)... T A=A(a), a is vector, a < RAL HARE A'= MA = (A'.ve, ", A'.ve)

A'_ERMAN

A'_ prof, let Y=(深)=(完) = ds; mxl 13. left=(xx), med) x(my) = ds = mxl (front) (xx), med) x(my) = solve: O ds = ds da (文)分 SAME = (I.vec of) mx(min) (al) (min)xL O A' > (A'x, A'x, A'x) = Y(A1x, A1x, A1x) = bx1 > (Y, vec x7) bx(min) / (min)xL = (K,x, A;x, A,x)

R=elth, R=elth, R=elah $(A_bB)_{FRBC}/=((A_bB)_{BXC})$ J.f ⇒ JJJ , JF 小R=R, 护护 23 R-RBR", t= ta-Pth られ,らかからな 786 你一点好事 2.5 batch: 然=(说) bx() 7-2 (J.) Ar, Br, Cr. is matrix f, 'f is vector J=(A & C),
A=(A) B=(B) :B, C=(C) A Tis weaton ((AG) (611) x3 AG) bx(18.3) amillarly for Others. WE USE X, not X. (from!) 少少,好

(AA AB AC) (BA BB BC) (A GB BC) JJ=(A')(ABC) JF=(K]) = (AB= (AB, ", AB) B'B=(", B'B;) AA= 54[A: 4C= 5AG $A=(A_1)$ $B=(B_1)$ (<u>B</u> Ai= (Aig), Bi=(W= 5AF 好-5時 J=(ABCD) 格化的的路路路上 Ar Ara=0, Cis=0, Dia=0 4. B Ge Aia, w. Dib matrix, Fra, Fib vector.

AC= 2AG=2(ABGATABA) hae BiBi-BiaBia + BiBi $BC = \left(\overrightarrow{BiC_{i}} \right) = \left(\overrightarrow{BiC_{in}} \right)$

BD= (BD)= (BD)

O dose dose dose dose (fram 2,5) @ Yief!,",19, 15-61,23 "A= 200 B= 200 为: BiBt= 200, Bit= 200, BiBt= 200, BiBt 守行法 Je = (Bia, j=1 (Bib, j=2 Jx = (fin , J=1 (Dis.) Ji= (Cia,)=1 治局的 ATB = (11, JmJe, 11) $BD = \begin{pmatrix} 1 \\ 2 \\ 1 \end{pmatrix}$ 野卡斯 ATA += JaJa PD+375 1-16) A-(A) B(B), B(B), (B) AD + JiJ, AT INTO NOTE X:=X=X=X=X=X 19722 x 63 pt J= d/N/11 d(K,A, (r,t):L,X) > Xil, XieRby, XieRbs 64 she AT=(ABC) 6. (K, d), (r, t)m, , Xm f=24-true. → 57, 74 (fm3) 1-12-the