```
0. 误差=精确值-程近似值
              向量链 X=(x,x2,..xn)T Lp超 ||x||, = (ス|xi|) |
                           ||X|| = ZIXi| ||X|| = max {|Xi|} ||X||2 = |Xi|X
                 た呼花数 IAII = Sup IIAXII IIAIIE = (デlaij|2)を
                          |All, = max [lai] 外级大 | |Allo = max [lai]行和最大
                               (IAI) = P(ATA) 相名性 IAXII (IAIHINI)
                                 对于相待的范蠡 P(A) < ||A|| P(A) = max {/Ail} 最大谱半柱
     1. 插值 D上有函数 P(x) P(xi)=f(xi)
                      多及式插值 L(x)= [li(x)f(xi) li(x)= T x-xi
                                                          N(x) = f(x) + f(x,x) (x-x) + f(x,x,x) (x-x)(x-x) + - · f(x, ... xn) (x-x)-(x-xn-1)
                                                                  R_{n} = \frac{f^{(n+1)}(\xi)}{(n+1)!} (x-\chi_{0}) - (x-\chi_{n}) = f[\chi_{0},\chi_{1},...,\chi_{n},\chi](\chi-\chi_{0}) - (\chi-\chi_{n})
= \frac{f^{(n+1)}(\xi)}{(n+1)!} (x-\chi_{0}) - (\chi-\chi_{n}) = f[\chi_{0},\chi_{1},...,\chi_{n},\chi](\chi-\chi_{0}) - (\chi-\chi_{n})
= \frac{f^{(k)}(\xi)}{\chi_{k} - \chi_{0}} = \frac{f^{(k)}(\xi)}{\chi_{k}} = \frac{f^{(k)}(\xi)}{\chi_{
                                          Hermite 插值 Xn: f(xn) f(xn) Xuni f(xm)
                                                                  f((n) fixn) = f(xn) f(xn+E) 用L(X)或N(X)外理
                                                                 h= [1-(21/2 +m/2)(x-xn)] my H(x)= Elf(xm) + Ehf(xn) + Egf(xn)
                         分段(多项式) 插值,三次样多函数
                                k次样年: SX)= 90+91×+-- axxx+ + b, max(0, x-X1) + ... bn-1 max(0, x-Xn-1) k
2.1 数值微分
                                      向前 f[xo, xo+h] R=-トf'(s)=O(h) 向后 f[x--h, xo] R= トf''(s)=αh)
              中心无局于[x-h, x+h] R = -\frac{h^2}{5}f''(5) = O(h^2)
- 抽值法 f'(x) = \Sigma[(x)f(x)] R = \frac{1}{5}\left[\frac{f''''(5)}{(r+s)!}\frac{\pi}{\pi}(x-xi)\right]
```

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2.2 数值积分 It)= Jakx)dx In(f)= caif(xi) En(f)= 14)-2n(f)
         代数箱度,m阶: I(x = In(x k) k m l(x m+1) + I(x m+1) f(n+1)(5)
         超值型数值银行 znth 用 tw=xºx1.xn 未定义;即可 En = Softrown Tx-xi) dx
              梯形积分(上 上 ] | 所 E, = + f'(1) (b-a)3
               Simple (b-a) \begin{bmatrix} \frac{1}{b} & \frac{4}{b} & \frac{1}{b} \end{bmatrix}^T 3 PM E_z = -\frac{f^{(a)}(5)}{4! \, 5!} (b-a)^5
                n寄 Ent) = +(n+1)! / 11 (x-xi)dx n的
          n個时,由等超色送水的结果 En4)= f(n+2)! fa(x-c) T(x-xi) dx
                   C任取 n+1所精度
                   复化稀形 h= b-a Trit) h[++ +]·[o] | onno
    复化数组积分
                       E_n = -\frac{h^3}{12}\sum_{i=1}^{n}f''(s_i) = -\frac{h^3}{12}nf''(s_i) = -\frac{(b-a)^3}{12n^2}f''(s_i)
                   愛化Simpon h= 1-a 四半時に Sm 2h [141] · [10101 ... 010] = h
                      E_n = -\frac{(2h)^5}{1500} m f^{(4)}(5) = -\frac{(b-a)^5}{1000} f^{(4)}(5)
                 Romberg 秋分(外推算法 Richardson)
                       Tn= R11 Szn= R22 Tzn= Rz,1 Rk.j 共 nzk+行為
                               43 - 1 | 124x - RKONEY | < E
                    首級分 []·[注·····注] 对应相乘 (大心治)
                          まする
                    Gauss 年為 Logendre 台及式 Ln(x) = zmni dn (x=1) 1 [-1,1]
                          在(1,1)上的至年文程和思知的分子的人了的=0
                                Jililidx=0 +#j
                               取 成 [(*4)*(*6)"] 的根据值部分,代数精度2n-1
3.拟台
                    Q= (900), 900) .. 900m)) Y= (y, y2. ym) R= 11 Q-Y1/2
       P(x) 逼近 y
       线性拟信 P(x)=a++bx 均方误差 Q(a,b)= E(a+bx,-y,)2=[(x;)(x)-(x)] [....]
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No.		
***************************************	************	
Date		

纸性方程组的最小二条解 AX≈b X=(ATA)Tb x=ATb txe $A = P\left(\frac{s_{1}}{s_{2}}, s_{n}\right)Q \Rightarrow X = Q^{-1}\left(\frac{s_{1}}{s_{2}}, s_{n}\right)P^{-1}b$ Posts

4. 非线性方程求根

对方法

不志かを注: ナ(x)=0 → ・f(x)=x xE[a,b], f(x)E[a,b], | f(x) | < L < 1 | xx-xx | < 上 k + 1 | Newton & this o= $f(x) + f'(x_0)(x-x_0)$ $x = x_0 - \frac{f(x_0)}{f'(x_0)}$ $\phi'(x) = x - \frac{f(x_0)}{f'(x_0)}$ $\phi'(x) = \frac{f(x_0)}{(f'(x_0))^2}$

p(x)-α = φ(x+x-α)-α = φωια + φ'(α)(x-α) + ρ'(ξ)(x-α)² = φ'(ξ)(x-α)²

二阶方法, 当一处隆福时 XL4= XL-PF(XL) 假二系法 強強法 XK+1 = XK - f(xK) = XK - f(xK) (XK-XK-1) 1.613 所

0~ Y(Year) = f(Kerr) - f(5) (Year - Xerr) (Xear - Xe) +插值的Re

f(xx+1) = f(x) + f'(n) (xx+1-x) => $x_{1}(x_{1}) - x_{2}(x_{1}) = \frac{1/(x_{1})}{2f'(x_{1})} (x_{1}(x_{1}) - x_{1})(x_{1}(x_{1}) - x_{1})$ $= \frac{1}{2f'(x_{1})} (x_{1}(x_{1}) - x_{1})(x_{1}(x_{1}) - x_{1})(x_{1})$

插值厚理: Жн 是 Ж Жн 插值函数的程

非线性游鱼 Newtonia J(XK) AX(K) = -F(XK)

5.解纵性方程组的直接法

王姆 O(n) 上下三角 O(n²) (+- 聖+o(n))

Gauss 消元法: (A,b) 化为上三角面回代(+ + +o(n²)) (auss-Jonan 代)(:)

Relief

选元, 再加查找 zhi+an) (m)

乘纸箱 A=LU Delittle 年位下海 Courant 年位上三角 A=LDLT A=QD 条件数 Coudp(A)= |A||p||A1||p | cond(A)與方流意 det A)(A)科, A)是存态的

```
6.解线性斑伯的迭代法 AX=b
       Jacobi 送代 DX = - (A-D) X+b Y= D-1 (B-(A-D) X]
                    y = -D^{-1}(A-D)x + D^{-1}b y_i = \frac{1}{a_{ii}} (b_i - \frac{1}{2}a_{ij} x_j)
       Gauss-Seidel 送行 Dy=-Ly-Ux+b Y= D'(b-LY-Ux)
                                         Ti = 1/aii (bi - zaij yj - zaij Xj)
                      y=(D+L) (6-UX)
       - 般选代过程 · 维是计算 x=A*b 取 C (xA*) A= C*12P
                (C^{-1}-P)x=b x=CPx+Cb=(2-cA)x+cb
                 y = (2-cA)x+cb (Ay-b) = (2-Ac)(Ax-b) y=x-c(Ax-b)
                 收敛 <>> P(1-(A)<1
              C=DT, (OHUT A行场列对新代时, 始级 C=DTL)T AR播旋时收敛
        松阳色进代 C=(品+L) Y= (-W)X+WD-(-LY-UX+b)
               1-cA = (&+L) (&+L-A) = (&+L) ( == 0-U)
               = ( " bet = ( |-w)" < | : o < w < 2
        逆矩阵 A.AT= 1 解 AX;= e; n行相 Ganss 以元 LUS解 OKS解
                迭行 AX=1 Y=(1-(A)X+CI=X-C(AX-I) C=0 (O+L) X
7. 计算矩阵 特征值 中征向量
              按模最大特征值 λ,= max (Xi (++1)) υ.= Y(k)
                             若 χ<sup>(tx)</sup> χ<sup>(tx+t)</sup> 收敛到 至为担股的向量 λ=-max {/χi(min)}}
                             者 x(116) x(1141) 收敛到两个不同的向量 至= Ax(1441)
                             \lambda_i = \max\left\{\frac{\mathbb{Z}_i}{\mathbb{N}_i}\right\} \lambda_2 = -\lambda, \nu_i = \mathbb{Z}_i + \lambda_i \chi^{(kn)}
               A= P( \( \lambda \) = P( \( \frac{1}{2} \))
        AK -> P(10, )pt = P(1). (1000...). Pt
               p(10.)p1.X0 = P(1).[(1000.)p1.X0] = CV, $(12.16.)
       反幂法 用ATBHA, 表找模最小舒征值
```

```
胜 PTAP = ( ** ** ) A对我则 *=>
         Jacobi 方法
                 \left(\frac{105 - 4ih}{5in}\right)\left(\frac{a}{b}\right)\left(\frac{a}{b}\right)\left(\frac{64}{5in}\right) = \left(\frac{4}{a}\right) = \left(\frac{a-4b}{a}\right)
                   \cot 2\theta = \frac{c-a}{2b} = 5
                                         t2+25t-1=0的技模Vastle (这样的人们 (4070)
                       COS= JIFE SIN= JIFE
                      Givens 旋转 (Q(P.2,0)=
         QR法
                      House holder GAT HE H= 2-2007
                                                              11/11=1
                                  AKHI = RK QK = QKHI KKHI
                                                             去数数
                     AK = QKRK
                       AK = Q, Q - QKRKKH - P, QK Qu' ... Q, AQ, Q2 - QK = AK+1
                         RK -> (1. . m)
                                        Q=1
                      A=QR:对A作政行变换 R=PA A=PTR
                    Kith Ang K nx2 [X61 X62] YK=AXK
          养法推广
                       把Yk 标准吸化 Yk = ( d,K &2x ) (xx) ( RK+1 U, L K2
                         XK-1 = (aik dek) A XK = XK+1 RK+1
                          收敛 AXm = Xm(ハt) xm=[x, xe]
                Shift 注 文估 N=a+bi 考虑. A- (a+bi)]自分最少特征值
                          Y_k = (A - S_{k-1} I)^T X_k X_k = \frac{Y_k}{\|Y_k\|}
                            SK = SK-1 + YKTY
                          ( y'(x)= f(x,y)

(y'(x)= y.
2.常微分於程初值问题
                       用导数近似差面 Y(xm) = Y(xm) + hY[xm, xm+1]
       Euler 方法
                      FOFTEULEY St Yn+1 = Yn+hf(xn, yn)
                      FOKE Euler att Jn+1 = Yn+ hf(xnn, yn+1)
                                             Juti = Yn+ hf(xn,yn)
                            Picard 後代格式
```

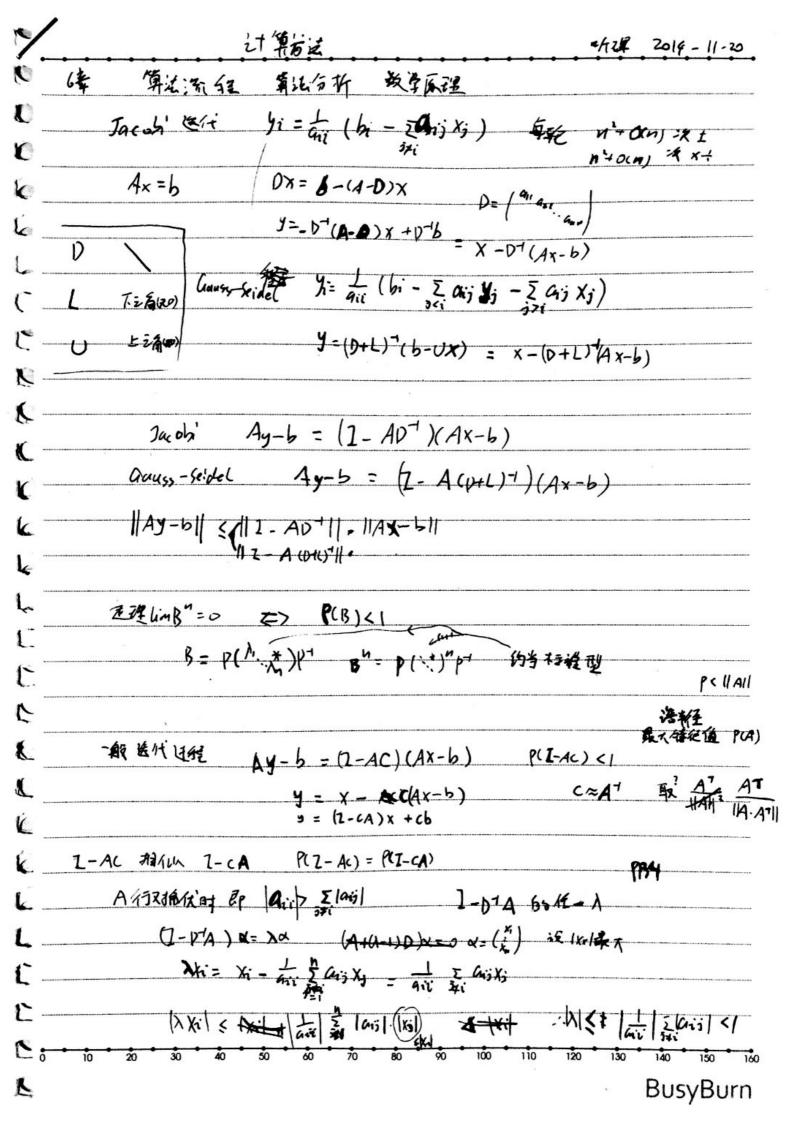
Ynt = Yn+ + h/(xn, yn)

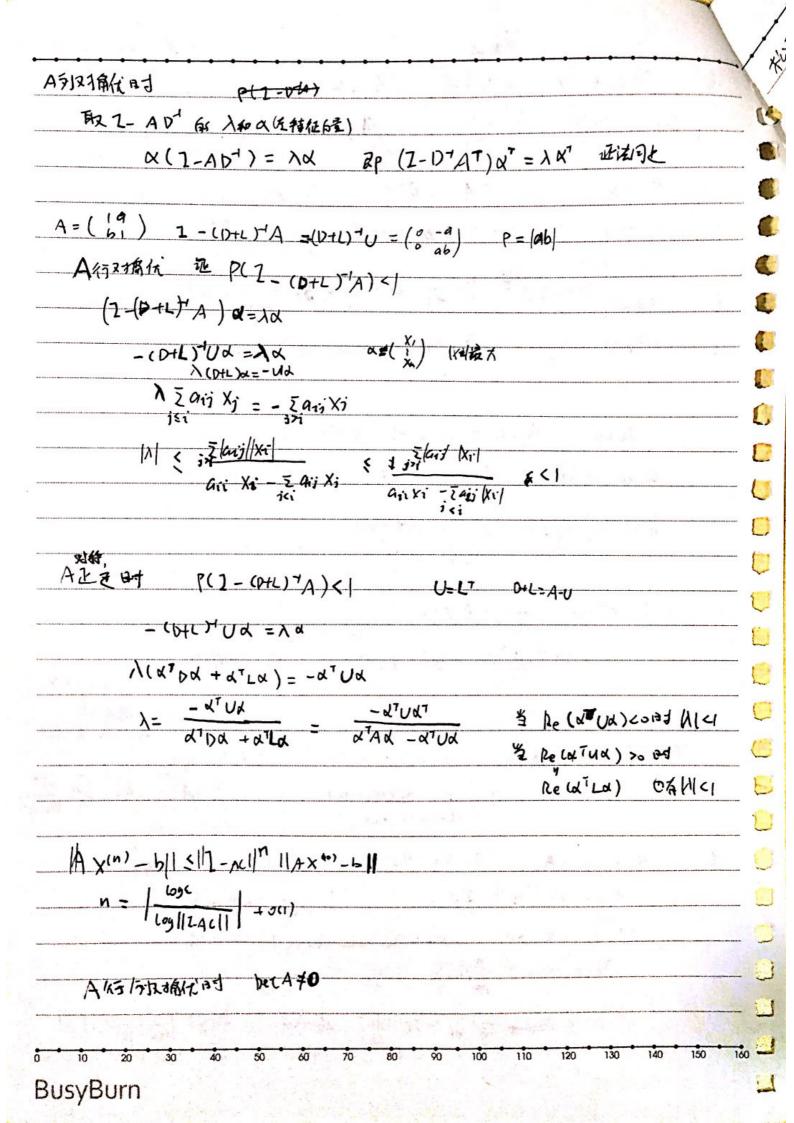
一种 原原 中心

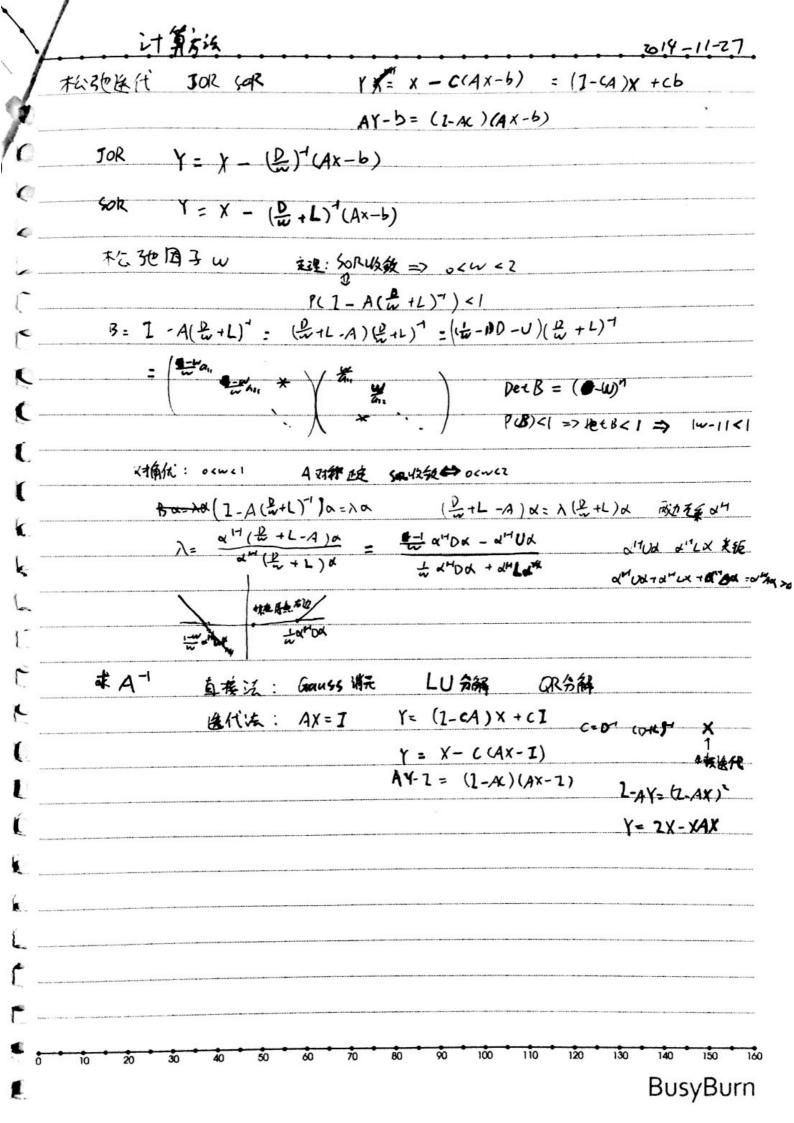
1/2 - Jn + h f(xm+1, ym1)

```
局部截断误差 Y(xxx)= Ym)+ hy(xx)+ 上f(s)= yn+1+ 上f(s)
                                                                             Tun = O(h2) Tun = O(hP+1) 新江是 P所的
                       整体截断设管 enn = Yxum)-Yun Lippe Lipschitz 新 f(x,y)-f(x,y) < Lly-91
                                    en+1 = y(xn) - yn + h[f(xn, y(xn)) - f(xn, yn)] + Tn+1
                                            lentil < len | + hL len | + T
                                                    => = (1+Lh) + 1-(1+Lh) + T
                                                                               <(I+Lh)n+1(kol+Lh) < eL(b-a)(leal+Lh)
基于数值积分的近似公蛭式 Y(Xn+1)= Y(Xn) + JXn f(xy)dx
                                     f(x,y)取 f(xm,y(xm)) > Euler 向前 公式
                                      大xy)取 f(xun, yunn)) → Euler 向后公式
                                      梯形公式 Yn+1= Yn + 与[+ch, yn)+ f(xn+1, yn+1)]
                                                                       (再预估一校正:失用已记式剪初始,再选付一次隐式试)
 Runge - Kutta sit
                                       y(xth) = y(x) + hy'(x) + h2 y"(x) + .. hpy y(x) + T
                                                                                                                                                                                                                                       所職
                                           P=1 > Euler 所
                                             y(x_{n+1}) = y(x_n) + h f(x_n, y(x_n)) + \frac{h^2}{2} [f_x(x_n, y(x_n)) + f_y(x_n, y(x_n))] + [I_{nn}]
                                     =7M_{T_1} = Y_n + M_f(x_n, y_n) + \frac{M^2}{2} [f_x(x_n, y_n) + f_y(x_n, y_n) f(x_n, y_n)]
f(x_n, y_n) = y_n + M [C_1 f(x_n, y_n) + C_2 f(x_n + ah, y_n + bh f(x_n, y_n))] \\
= 0 \text{ TL} \quad x_n \in Y(x_n) \\
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 铁性线法(Adams 公式)P=0)
                         用 を+1 作 指値 Pay' Yn+1 = Yn-p + 「Xn+1 Pdx Xn, Xn, Xn+... Xn-en 隆平

Yn+1 = Yn-p + こCif(Xni, Xni) 用 fc+)=(t-Xnn) K=0,1... t it質 Ci
                                                       T_{n+1} = \int_{x_{n-p}}^{x_{n+1}} \frac{x_{n+1}}{x_{n-1}} \frac{y^{(e+n)}(n)}{y!} \pi(x-x_{n-1}) dx = O(h^{e+1})
   常做分战组及高阶常微分为独程
                  リーマ f(x, y) → F(x, y) リーマー {ア=F(x, p) 公式形式 対一級
                   高阶: Yi=y Yi=y' y=y" ... 化为常微分方程组
```







Date 特征值计算 幂法:最大的征值 负幂流:最小496E值 QR运:本所有舒延值(最低的K个) 实对特定阵的 Jacob 法: 本实对称 特征信 Rite: 随机产生领量 [Vollet 22 Xpen = AXKen 1) 入K = XKHA XK Ck = 1/AXx-AXXI A= P(1/2)p-1/1/3/1/3/1/3-. 3/1/4 P= (41 Kz -- an) AK = P(hk.)p . lim AK = P(10.)p1 K= P(1000) P1 X0 K= K1 ett A= P(1 B)P1 |11 > P(B) Lin xx+Axx = + + 1 AK=P(AK)p+ ting AK=P(10)p+ ting AK=P(10)p+ ting Tao teA) 质强法: 就+A取A QR! X. METHER NX2 [xi xi] K=A Xx 把X标准改化 K= (Man) (**) W.La. XICHI = Q AXIC = XK+1 Rx+1 (AK Xo= XK Refor Roy 地域: A Xm= Xm(1/2) Xm= (d, d) d. を特定方主 (を注) 1>. 若 A 最大林 针形值 失轭酸钠 复数 新愿、A + (a+bi) I 的最大模特征值 27. 君本成A的舒征值距 a+5i 散近的维维 黎. A-(a+bi)1 的最小被符征值 列用 Shift法, 朱首传 atbi, 五 2). 反带流 = (A-Se-1) 1 /k-1 X= Yk/19x11 Sh = Sex + 17-1.4

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Detec	Date · ·
Jacobi 法 PTAP=(1,*) P正友 Axt体)	Py *=0.
	= (alos + csin 0 - b finzo
26 120 6-9 12-14-150	GIAL CHE = (a-th)
$\frac{\tan 2\theta = -\frac{1}{\alpha - C}}{\left(\frac{P^{7}}{2}\right)\left(\frac{A_{1}}{A_{2}}, \frac{A_{2}}{A_{3}}\right)\left(\frac{P}{z}\right) = \frac{\left(\frac{P^{7}}{2}\right)}{\left(\frac{A_{1}}{A_{2}}, \frac{A_{2}}{A_{3}}\right)\left(\frac{P}{z}\right)} = \frac{\left(\frac{P^{7}}{2}\right)}{\left(\frac{A_{1}}{2}\right)}$	化 运输的缝 05070
QR Ac= QKRK	A. 21%, 364 At
ANI = RECK = CKHI RKHI TOKK	11.10
	R2R, QR, = QQ2 k2 QR2R, = QQ2Q3 831
AK = QiQk RkR. 考 hmTQ	
(To) A = Q Recor QT him Rx = QT	N. W. Carrier and Control of the Con
Qu' Q Qt = AK+1 = Rk Qk =1	
1. 又于 AGS PI GE 17 Gram - Schmich 主发化	Lit
2.77A68316至作初等交换 移址改基	$Q = AR^{-1}$
1.对A有证作正交行变获得上编作 1.A	
_ > 酸衍交换: Daivens 放射 @Household	
Y (sin cos) H= 1-	- ZVVT
(') -> (sing) M =1 V	1-7-V
	2VT×V X減 X在V教影的兩倍
Grow (5h m 1) (Q d) -> (* *	* described to the text of the
((a C) Jaker	*** 新州水
Hayrudday (X) (X)	
$\frac{1-2vv^{7}}{\left(1-2vv^{7}\right)\left(\frac{x}{2}\right)} + \frac{\left(\frac{x}{2}\right)}{2} + \left$	
V= (0) - { 0,	
THERE	

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●常数方方程》的值问题
(y'= f(x,y)
Y(a)= yo
```

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グローグ: × y(Xi)=f(xi,yi) のまらしなだだ。 Xin - Xi

25'(xin) = f(xin, yin) ABEula, ET,

$$\frac{1}{2^{2}} \frac{1}{2^{2}} \frac{1}$$

后的钱,整体没是一个假心的发展对的 局的现在分子

四部储 4%)-4(x,)= x(x,)(x-x,)+x()(x-x,),

$$y(x_1) = \frac{1}{2} \frac{y_1}{y_1} + h y'(x_1) - \frac{y'(y_1)}{y_1} h^2$$

$$y(x_{i+1}) = y(x_i) + y'(x_i)h + \frac{y'(x_i)h^2}{2}h^2 + \frac{y'(x_i)h^3}{6}h^3$$

$$y(x_{i+1}) = y(x_i) - y'(x_i)h + \frac{y'(x_i)h^2}{2}h^2 - \frac{y''(x_i)h^3}{3}h^3$$

$$y(x_{i+1}) - y(x_{i-1}) = 2h \cdot y'(x_i) + \frac{y''(x_i)h^3}{3}h^3$$

を体: (ダ/= f(x ゆ) タ(x:)= yi タ(x+1) - y+1 = O(hpt) Q y(xxxx) | φ-φ|=? | φ-φ'|= | f(x, φ)-f(x, φ) | ≤ L | φ-φ| → | \$ (x141) - \$ (x141) | { e Lh | \$ (x1) - \$ (x1) | { z' < L2 \$ = 260)} P(xi+1) - Ji+1 | & MhP+1 |Y(xi+1) - yi+1 | < eLh / y(xi) - yi | + MhPH 两边降 eLh(i+1) = (| y(xi-1) - yil | | y(xi) - yil + Mhai Iż | y(xn) - yn | = The (b-a)L p . Me (b-a)L hpt) y (ki41) = 1(x2) + (kir) y'(+) dt = y(ki) + (ki) ft, y(4)) dt = y(xi) + f(xi, yi) + f(xin yi) h 基于数值和多的近似名式

改进图 Yit(= 1:+ 大水·yi) + H(xi+1, yi + hfuixi)). h

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