20=4027. 2(=1 -) BA &= 4+2

```
时是92
   J2(X) NEWXX 19年长花的3.
      \cot\left(\chi - \frac{\nu \pi}{2} - \frac{\pi}{4}\right) = \frac{4\nu^2 - 1}{8\pi}
       2>)(08±(7. 82 ~0 & tsi.
                                       \cot\left(\chi - \frac{2\chi}{2} - \frac{\chi}{4}\right) = 0
        二月式四角年(ま
                         2-28-8-NR+5
                         2=(n+=++)7---(2-1)
     2-1 切10分产生作品 ~好3.
      ==2:x=(n+=++)7+52(7.2-0)1-1+1/13.6
            cof((N+\frac{2}{2}+\frac{3}{4})\pi+\delta-\frac{2\pi}{2}-\frac{\pi}{4})=\frac{42^{2}-1}{8}\frac{1}{(N+\frac{2}{2}+\frac{3}{4})\pi+\delta}
cof((N+\frac{1}{2})\pi+\delta)=\frac{42^{2}-1}{8}\frac{1}{(N+\frac{2}{2}+\frac{3}{4})\pi}\frac{1}{1+\frac{3}{(N+\frac{2}{2}+\frac{3}{4})\pi}}
\frac{cof((N+\frac{1}{2})\pi+\delta)-sin((N+\frac{1}{2})\pi)sin\delta}{sin((N+\frac{1}{2})\pi)sin\delta}=\frac{42^{2}-1}{8}\frac{1}{(N+\frac{2}{2}+\frac{3}{4})\pi}\frac{1}{(N+\frac{2}{2}+\frac{3}{4})\pi}
\frac{sin((N+\frac{1}{2})\pi)cos(s)+cos((N+\frac{1}{2})\pi)sin\delta}{sin((N+\frac{1}{2})\pi)sin\delta}=\frac{8(N+\frac{2}{2}+\frac{3}{4})\pi}{(N+\frac{2}{2}+\frac{3}{4})\pi}
          -(a_{1}(8)) = \frac{42^{2}-1}{8(n+\frac{2}{4}+\frac{2}{4})\pi} \frac{1}{(n+\frac{2}{4}+\frac{2}{4})\pi} \frac{1}{(n+\frac{2}{4}+\frac{2}{4})
         -fan(S) = \frac{(2)^2 - 1}{8(n+\frac{2}{5}+\frac{2}{5})\pi} \cdot \left( \left( -\frac{8}{(n+\frac{2}{5}+\frac{2}{5})\pi} \right) \frac{9(S) - fanS}{9(S) - fanS} \right)
      -S = \frac{42^{3}-1}{8(n+\frac{2}{2}+\frac{3}{4})\pi} - \frac{8}{8(n+\frac{2}{2}+\frac{3}{4})^{2}\pi^{2}}
                                                                                                                                                                                                                                                                                                                     1-8(n+=++)2=-
                                                                                                                                                                            4 22-1
S(n+ 2+ 3)
        \left(\frac{1}{8(hf^{\frac{2}{2}})^2\pi^2}-1\right)8=
                                                                                                                                                                                                                                                                                                                   8(N+2+7)22
                  S = \frac{42^2 - 1}{1 - 8(n + \frac{2}{2} + \frac{3}{4})^2 \pi^2}
                                                                                                                                                                            · (n+2+3)2/2
```

$$S = \frac{4v^{2}-1}{1-8(n+\frac{2}{2}+\frac{3}{4})^{2}\pi^{2}} \cdot \left(n+\frac{2}{2}+\frac{3}{4}\right)^{2}\pi^{2}$$

$$\chi(v) = \left(n+\frac{3}{4}\right)\pi + \frac{(n+\frac{3}{4})^{2}\pi^{2}}{1-8(n+\frac{2}{2}+\frac{3}{4})^{2}\pi^{2}}$$

$$\chi(o) = \left(n+\frac{3}{4}\right)\pi + \frac{(n+\frac{3}{4})^{2}\pi^{2}}{1-8(n+\frac{3}{4})^{2}\pi^{2}}$$

$$-S = \frac{(v)^{2}-1}{8(n+\frac{2}{4}+\frac{3}{4})\pi} \cdot S = \frac{(-4v)^{2}}{8(n+\frac{2}{4}+\frac{3}{4})\pi}$$

$$\chi(v) = \left(n+\frac{2}{4}+\frac{3}{4}\right)\pi + \frac{(-4v)^{2}}{8(n+\frac{3}{4})^{2}\pi}$$

$$= \left(n+\frac{2}{4}+\frac{3}{4}\right)\pi + \frac{(-4v)^{2}}{2\pi(4n+2v+3)}$$

$$\chi(o) = \left(n+\frac{3}{4}\right)\pi + \frac{1}{8(n+\frac{3}{4})\pi} = \left(n+\frac{3}{4}\right)\pi + \frac{1}{(4n+3)2\pi}$$

$$\chi(1) = \left(n+\frac{5}{4}\right)\pi - \frac{3}{2\pi(4n+5)}$$

$$\chi(3) = \left(n+\frac{3}{4}\right)\pi - \frac{9}{2\pi(4n+13)}$$

$$\chi(5) = \left(n+\frac{13}{4}\right)\pi - \frac{99}{2\pi(4n+13)}$$

```
7993
(1) 太(生)の特性活程式は,
    カー+227+1=0. これをといて.
     A = - E f v (- 2+
    よって、放送解け、
U(t)=Aef=+iv(-を)も
+Bef==~iv(-を)も
           = e-st (A cos( 1-zt) + B sin (1-z t)
    dy = -2e-2+ (A cos(VI-52+) + B sin (VI-52+))
                           te-5+ (-[1-2] A sin (J-52 t) + J-52 B cos (J-52t))
          = e-2E(-2Acos(xt)-2B'sin(xt)-J-2Asin(xt)+J1-2-Bcos(xt))
          = e-st ((-2A+J(-5+B)cos(xt)-(J(-5+A+2B)sin(xt))
     U(0) = A = 1, dy (== = -EA+)1-2+18 = 0
                                                   B'= \\ \( \sigma_{1-5^{2}} \)
    . u(t) = e-2+ (cos(1-52+)+ = sin(1-52+))
                                                                       h(x) = e^{-\xi 2L} (-\xi x + \frac{\xi^2}{2}x^2)
    f(2) = \cos(\sqrt{(-2^2)}x) \sim (-\frac{1-2^2}{2}x^2)
     \frac{df}{dx} = -\sqrt{(-\xi^2 \sin(\sqrt{(-\xi^2 x)}))} = 0
                                                                      \frac{dh}{dx} = -ee^{-\epsilon x}
     \frac{d^2f}{dx^2} = -\left((-\xi^2)\cos\left(\sqrt{[-\xi^2]}x\right) \xrightarrow{\chi \to 0} -\left((-\xi^2)\right)
                                                                    1 Ph = 22-ax
    g(x)= Sin (VI-E'x)~ J1-E'x
     \frac{dg}{dx} = \sqrt{(-\xi^2)} \cos\left(\sqrt{(-\xi^2)}x\right) = \sqrt{(-\xi^2)}
     \frac{d\mathcal{F}}{dr^2} = -\left((-\xi^2)\sin\left(\sqrt{(-\xi^2)}\right)\right)
       U(t) \sim (1-\xi t + \frac{\xi^2}{2} t^2) (1-\frac{(-\xi^2)}{2} t^2 + \frac{\xi}{\sqrt{1-\xi^2}} \sqrt{1-\xi^2} t)
               = (1- Et + \frac{\xi^2 t^2}{2})(1-\frac{\xi}{2}t^2+\xitext+\frac{\xi^2}{2}t^2)
               2(-\frac{1}{2}t^2-\xi t(1-\frac{1}{2}t^2)+\frac{\xi^2}{2}t^2(1-\frac{1}{2}t^2)+\xi t-\xi t(\xi t)+\frac{\xi^2}{2}t^2
               = (-\frac{\xi}{2}t^2-\xit + \frac{\xi}{2}t^3 + \frac{\xi^2}{2}t^2 - \frac{\xi^2}{4}t^4 + \xit - \xi^2 t^2 + \frac{\xi^2}{2}t^2
               =1-5t'+ 2t3- 4tx
```

```
度数千(七) [= 女] L、 d即; = 广(七) 2表 。
い(七)=い(七)+ EU,(七)+E2い2(七)+~~を(4)さ(三代义すると,
(u"(t)+ Eu"(t)+ 22"(t)+ ...)+2E(uo(t)+Eu, (+)+&2u(t))
                                                    +(Uo(+)+EU,(+) + E2U2(+))+((E3)+0
(Uo(t)+Uo(t))+(U((t)+Uo(t)+U,(t))2+(U((t)+Uo(t)+Uo(t))2+0(23)2
  O(1): \mathcal{N}_0^{\prime\prime} + \mathcal{N}_0 = 0
                                           U_0(0) = 1, \frac{dU_0}{dE}|_{E=0} = 0
  0(2) = U"+U" = -2U%
                                           2
          U_1(0) = 0, \frac{dU_1}{d\epsilon} |_{\epsilon=0} = 0
 \mathcal{O}(\mathcal{E}^2): \mathcal{U}_2^{\mathcal{U}} + \mathcal{U}_2 = -2\mathcal{U}_1^{\mathcal{U}}
                                             3
          U2(0)=0, du/t=0=0
(1) £ 2 <.
 Uo(t) = Q cos(t) + b sin(t)
 dho = - a sin(t) + b cos(t)
 U_0(0) = 0 = 1, \frac{du_0}{dt}|_{t=0} = b = 0
: . Uo(t) = cos(t). , duo = - sin(t)
2 & E < . U,"+U, = 2 sin(+)
                                                            - X sln(t) +
 同次我的解: Until a cos(t) + b sin(t)
       #解在:U(t)=xtcos(t)
               du/ = x cos(t)-xt sin(t)
               \frac{d^2\alpha_1}{dt} = -\alpha \sin(t) - \alpha \sin(t) - \alpha t\cos(t) = -2\alpha \sin(t) - \alpha t\cos(t)
    -nd E. Q(2/t)入 $32
     -2 xsin(t) - x t cos(t) + x t cos(t) = 2 sin(t) - 2 x = 1
          :. U((t)=-tcos(t)
```

```
-42 \alpha : U_{i}(t) = \alpha_{cos}(t) + b_{sin}(t) - t_{cos}(t)
                              \frac{du_i}{dt} = -\alpha \sin(t) + b\cos(t) - \cos(t) + t\sin(t)
                                            = -asin(t)+(b-1)cos(t)+ tsin(t)
                              U_1(0) = 0 = 0, \frac{du_1}{dt}|_{t=0} = b - 1 = 0 \longrightarrow b = 1
                             -. U,(t)= sin(t)- toost)
(3) f \in \langle U_1^2 + U_2 = \frac{1}{2} f \cos(t) - \frac{1}{2} s \sin(t) \rangle
    同次科(内解: U2(t)=Qcos(t)+bsin(t)
      情解: U2(t)=Xt2sin(t)+Btcos(t)
                                   auz=2xtsin(t)+xt2cos(t)+Bcos(t)-Btsin(t)
                                   = (2\alpha - \beta) t s' \ln(t) + \alpha t^2 \cos(t) + \beta \cos(t)
\frac{d^2u}{dt} = (2\alpha - \beta) (sin(t) + t \cos(t)) + \alpha (2t \cos(t) - t^2 \sin(t)) - \beta s' \ln(t)
                                               = (2x-2B) sin(t) + (4x-P) tcos(t)-xt2sin(t)
                 (2x-2B) sin(t)+(4x-B)tcos(t)-xt2sin(t)+xt2sin(t)+Btcos(t)
                                                                                                                                                                  = 2 t cos(t) - 2 sin(t)
                                                                         =) \sqrt{x} = \frac{1}{5} ... u_2(t) = \frac{1}{5}t^2 \sin(t) + \frac{3}{5}t \cos(t)
               \langle 2 \times -2 \rangle = -2
              ( 4x = 2
    - 厨房车: U.Lt) = Qcos(t) + bsin(t)+ ft sin(t)+ ft cos(t)
                                     \frac{du}{dt} = -asin(t) + bcos(t) + tsin(t) + ft^2cos(t) + ft^2cos(t) - ft
                                      U2(0) = Q = 0, Qlus (t=0 = 1) + = = 0 - 6= - 3
                                      -: U2(t) = - = sin(t) + = t2 sin(t) + = 3 tcos(t)
   -. U(t)=cos(t)+(sin(t)-tcos(t))2+(-3sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2sin(t)+2t2
                                                                                                                                                                                                                             toc;)
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(3) u £ 2 a f - 9 '- $2". $\alpha 3.
                  10 = ( 2 + 2 d + 2 d + 2 d ) ( 2 + 2 d + 2 d )
                                       =\frac{J^2}{Jt_0}+\xi\frac{J^2}{Jt_0Jt_0}+\xi^2\frac{J^2}{Jt_0Jt_0}+\xi^2\frac{J^2}{Jt_0Jt_0}+\xi^3\frac{J^2}{Jt_0Jt_0}
                                                                                                                                                                                                                                  =\frac{3^{2}}{16^{2}}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{16^{2}}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}}{2606}+2\frac{3^{2}
                  上於主(4)式(二代)人
                 di (No + EU, + E'U) + 25 de (No + EU, + E'U2+ ···) + (No + EU, + E'U2+ ···) 20

\left\{ \left( \frac{\partial^2 u_0}{\partial t_0^2} + 2\xi \frac{\partial^2 u_0}{\partial t_0 \partial t_1} + \xi^2 \left( \frac{\partial^2 u_0}{\partial t_0^2} + 2 \frac{\partial^2 u_0}{\partial t_0 \partial t_1} \right) + 2\xi^3 \frac{\partial^2 u_0}{\partial t_0 \partial t_2} + \xi^4 \frac{\partial^2 u_0}{\partial t_0^2} \right\}

         +2\left(\frac{\partial^{2}U_{1}}{\partial t_{0}^{2}}+29\frac{\partial^{2}U_{1}}{\partial t_{0}\partial t_{1}}+2^{2}\left(\frac{\partial^{2}U_{1}}{\partial t_{0}}+2\frac{\partial^{2}U_{0}}{\partial t_{0}\partial t_{2}}\right)+29\frac{\partial^{2}U_{1}}{\partial t_{0}\partial t_{2}}+29\frac{\partial^{2}U_{1}}{\partial t_{0}\partial t_{2}}
         +22\left\{\left(\frac{\partial u_{0}}{\partial t_{0}}+2\frac{\partial u_{0}}{\partial t_{1}}+2^{2}\frac{\partial u_{0}}{\partial t_{2}}\right)+2\left(\frac{\partial u_{1}}{\partial t_{0}}+2\frac{\partial u_{1}}{\partial t_{1}}+2^{2}\frac{\partial u_{1}}{\partial t_{2}}\right)+2^{2}\left(\frac{\partial u_{1}}{\partial t_{0}}+2\frac{\partial u_{2}}{\partial t_{1}}+2\frac{\partial u_{2}}{\partial t_{2}}\right)\right\}
         + (40+54,+ 2242+···) +0(2x)=0
( 2240 + 2 2 2260 + 2 2 ( 2360 + ) 2400 ) + 2 2 3 2260 ) + (2 224, 2 2 224, 2 2 24)
       + 2 3 ( 124 ) ) + ( 2 2 140 + 2 5 2 16) ) + ( 2 2 16 + 2 5 2 16) ) + ( 2 2 2 16 + 2 5 2 16)
         + (222 du, +223 du) + 223 du2 + (40+ EU, + E24, +...) + O(E3)=0
              dy (t=0 = ( = to + 2 = to + 2 = to ) ( Uo+ & U, + € U2 + ··· ) ( (to, to, to) = (0,0,0)
                                                                  =\frac{\partial u_0}{\partial f_0} + 2\left(\frac{\partial u_1}{\partial f_0} + \frac{\partial u_0}{\partial f_1}\right) + 2^2\left(\frac{\partial u_0}{\partial f_2} + \frac{\partial u_1}{\partial f_1} + \frac{\partial u_2}{\partial f_0}\right) + O\left(\frac{3}{2}\right) \Big|_{(0,0,0)} = 0
                                                   \frac{\partial^{2}U_{0}}{\partial f_{0}^{2}} + U_{0} = 0
U_{0}(0,0,0) = 1 / \frac{\partial U_{0}}{\partial f_{0}} \Big|_{(0,0,0)} = 0
          0(1): 2-t2 + 4.0 = 0
      O(\mathcal{E}) = \frac{2^{2}u_{1}}{2+6^{2}} + U_{1} = -2 \frac{2^{2}u_{0}}{2+6^{2}} - 2 \frac{3^{2}u_{0}}{2+6}
U_{1}(0,0,0) = 0, \frac{\partial U_{1}}{\partial + 6} + \frac{\partial u_{0}}{\partial + 1} \left( \frac{(0,0,0)}{2+6} - 2 \frac{\partial U_{0}}{\partial + 1} - 2 \frac{\partial U_{1}}{\partial + 1} - 2 \frac{\partial^{2}u_{1}}{\partial + 1} \right)
O(\mathcal{E}^{2}) = \frac{2^{2}u_{0}}{2+6^{2}} + U_{2} = -\frac{2^{2}u_{0}}{2+6^{2}} - 2 \frac{2^{2}u_{0}}{2+6^{2}} - 2 \frac{2^{2}u_{1}}{2+6^{2}} -
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PEEC. 2200 + U6=D Uo(to,t,t2) = A02(t2)Ao,(t,)eito+B02(t2)Bo,(t,)e-ito $\sqrt{\frac{\partial u_0}{\partial t_0}} = \lambda A_{02}(t_1) A_{01}(t_1) e^{\lambda t_0} - \lambda B_{02}(t_2) B_{01}(t_1) e^{-\lambda t_0}$ 1 2240 = i Aoz(t) dAor eito - i Boz(t) dBor e-ito 上大きのに代人 224, + U, = - 21 Ao2(t) MAO1 erto + 2 y Bo2(t) dBo, e-ito -21 Ao2 Aoreito+22 Bo2(t) Bor(t,)e-ito = -2 i Ao2 (Ao1+ dAo1) e ito + 2 i Bo2 (Bo1+ dBo1) e-ito Aos=0=f=1 Aor=Aor(0)=+1017 Boz=0=1=1=1 Bor=Bor(0)e-t, U.(to,t,t2) = A12(t2)A11(t,)eito + B12(t2)B11(t,)eito 3°40 = -Ao2 Ao, evito - Bo2 Bo, e-ito, 2°40 = i dAo2 Ao, evito - i dBo2 Bo, e-ito 200 = Ao2 dAo1 evito + Bo2 dBor evito 201 = 1 A12A11 evito - 1 B12 B11 e-vito

200 - Ao2 dAo1 evito + Bo2 dBor evito 201 = 1 A12A11 evito - 1 B12 B11 e-vito

200 - Aca dAo1 evito + Bo2 dBor evito 201 = 1 A12A11 evito - 1 B12 B11 e-vito

200 - Aca dAo1 evito + Bo2 dBor evito 201 = 1 A12A11 evito - 1 B12 B11 e-vito

200 - Ao2 dAo1 evito + Bo2 dBor evito 201 = 1 A12A11 evito - 1 B12 B11 e-vito

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200 - Ao2 dAo1 evito + Bo2 dBor evito 201 = 1 A12A11 evito - 1 B12 B11 e-vito

200 - Ao2 dAo1 evito + Bo2 dBor evito 201 = 1 A12A11 e-vito 201 上到是四个人 2-1/2 +U2= 院教:大学和·2-+13-17 7+1 (No(0,0,0)=A02(0)A01(0)+B02(0)B01(0)=(240 (0,0,0) = A02(0) dfor = 0 B02(0) dfor tien = 0 Bo2(0) dBox (== Ao, (0) + Bo2(0) Box (0) = 1 Bo 2 (0) (Apr (60) dbor (400 + Bor(0)) = (