```
y" +2y +y = 2x chx = xex + xex
               7 = -1 dep 2
72+27 +1=0
 Opoy y= C, ex+Czxex
 up. 70: y=xex ... µ=1. k=0. m=
Y P H Y y = (Ax+B) ex y' = ex(Ax+A+B)

y'' = ex(Ax+2A+B)

Ax+2A+B+

12Ax+2A+B+

y, -4 [x-1]ex

+ Ax+B = X
m. 2. y=xe-x l=-1 k= 2 = m
    UPHY: y=x2/Ax+1B) ex=(Ax3+Bx2)ex
           y'= e-x fAx3+(3A-13)x2+2Bx)
          411 = e (+ Ax3 - (6A-B)x2 + (6A-4B)x+2B)
+ A x3 - (6 A - B) x2 + (6 A - 4 B) x + 2 B +

* - A x A x 3 + 2(3 A B) - B) x2+ 4Bx +
     . . A x3 + B x2 = 2 x
  Omb: y = Gex + C2xex + x-1 ex + x e
                                                    6 zegulaurene
 1/4 43 93. y"-ay +2y= excosx
               72-27-2-0
                7= 0 = 10= 7 2 2 0 = 10= x
         ORON. B-CIENNA CIENS
                 101=2 => 2= a up.2
          OPOJ: y-ceyzx, Czxeyzx
                 10142 -> 2= 07:14-02
         0809: A = Color of Cross of Service X + Casin of Service X
 rpolos man excesx - , M=1 = i
         n-notone xob. Long, with:
            (1,12-0(111)-2-0
                2: - Q - Q: +2 -0
                     0-5 - Lessement com
   mu 0 +2 h=0 m=0
 YPHY: Y = ACXCOSX + BESINX
  mpu a=2 " 12 = 1 m=0"
  uppey: 4-x(bexcosx - Bsex sinx)
                 Lamer brown house
```

oneuswho

```
Due peur 3. Kour rynoro runnan osase peu, a
nomen ceamency fre C1, C2
No. 9"+140 = Sin2x 4(0)=1 (0)=0
    りょんくりこの ハーン・リーオーナン・
    14 milen: Sin2x = 1 M= 12i K=1 m=0
00000 - 4= (1005 5x + (25/42x)
        4POY: y=x(Asinze + Bouszx)
    Mr. were - recensure
       Mouse moules venix mapage =1 Unsen 4PMY & buyen y = B = cos 2x
     A, = B(-52:NSX-S:NSX-KX CO25X) = - AB(2:N5X+X CO25X)
A=Bco25X-5626X - B(co25X-5x2:N5X)
A=13=6025X
             => - YBS: NZX - SINZX -> B= -1/4
    OPHY: 8-C1.00-2x+C2.5142x-x
  3. Nowi:
                    y)=-2(,5:1,02x = 2(,00x2x - 4,00x2x = 7 5:42x
 Y(0)-1 C1-1
  3(0)=0 2C2- 4=0
                       9-003x+ $ SINZx - 7 COZX
   Mouse up want
  g(m) + Qx(v) g(n-x) + ... + Qn-x(x) y + Qn(x) y = f(x)
                                               rge (0:(x)-reup na
maninymhe
  Mrioniembo peur 09
  7-6474+ 1400 9 1 191 1 94- PCP
   · Bapuarine no uno exituri
  OBUA morror p prose d- curk). dick)-... c'(x). Ar(x)
  C,(k) .... C,(k) untilmer as armenni.
   (C)(K) A'(K) - ... C'(K) A'(K) = 0
    ( c/(x) y/ (x) + ... + c/(x) y/ (x) - f(x) - moselus 3800 np. 4. He mose
  - onegrumen Branchar
    y(n-1) y(n-1)
                          ( c,(x)(ex), c,(x)(ex), ex+ex
 Tr. y"-y- ex-ex-x
  パームこの カルマーナイ
                              -> 20/(k) ex = ex. ex.
0009. y=c,ex+c,ex
                                Cy(x) = 1-e-2x
                                                   Cilx = 21-1 2(ex+ex)
0047: 9-C1(x) ext (5(x) ex
```

```
C((x)= ) 1-e-2x dx - 12 ) ex ex-ex dx = 12 (+14) dx = 2 (12-1) dx =
       = 2/(1-124)d= 2t-orchyt+C1= 2ex-orchyex-C1
  = - ex-andyex-cz
           Outen: y=(1/2e - archy ex - c) ex +
                                                 4 (- 3ex + on chyex > co) ex
                                         <=> y=1/2-exarctyex-crex-/2+exarctyex+crex
      ogenve en-NE
                                                                 Poorer 020468. (ax+6), 2(-1-1-1-1 (ax+8) 2-7- f(x)
      X" y(") - (~X"-1 y ("-1) + ... + Q"-1. Xy + QNY = 0
                                                                                                                       (Hor (0,+2) ..... (-10,0))
     3emen pez.menen x=et (x20)
     A, = \(\frac{\lambda_{\empty}}{\lambda_{\empty}} = \(\empty_{\empty} = \empty_{\empty} \), \(\frac{\lambda_{\empty}}{\lambda_{\empty}} = \(\empty_{\empty} \), \(\frac{\lambda_{\empty}} \), \(\frac{\lambda_{\emp
                                  - umbojume u ypies c noun coses
   (2x^{2} + 2x^{2})^{2} - 2x^{2} = -2x^{2}
                                                            (0 ( x )
        x-6<sub>f</sub>
        y 1/2 - e-26 ( 4/21 - 4/2)
                                                                                                 yours. y- Ae36
y"41-y'6 = -ze<sup>36</sup>

1<sup>2</sup>-1-2-0 1--1

0009: 4=cxe<sup>-4</sup> + cze<sup>24</sup>
                                                                                                                        90-30-70-2 -> 0=-42
                                                                                                   yphy: y -- = == 2036
                                                                                                         Outen: 3- x - C2x - 2x
 K=0
     TIP. X2 y + xy + y = cos(enx)
                         x-et; yx=e-ty, y'xx-e-t(y'4-y'6)
                                                                                romune cost untilled miso
       13,-3,13-13-10st
                                                                                     64 cas Bet
       y" +y - cost.
                                                                                                                       ( reven of us)
                                                                                       7-2 2-1
       りょイイーン ーノ リーチに
     0007. 7- Crosp + Cr x-P
    4 = Boos + - Bf 2 nf + Boos + = 2 Bross - Bf 2 inf
                                                                                                                           -1 B = 1/2 y"-y = cost
                       =1 y= Caust & Casinta Zsint
                                                             -1 Oulen Cros Cux+ Crs whix + Enx sin Cux
```