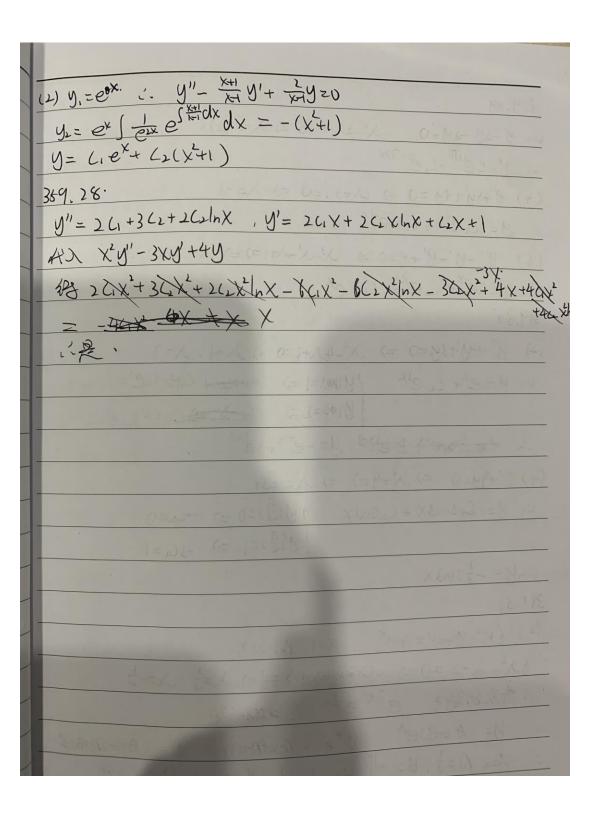
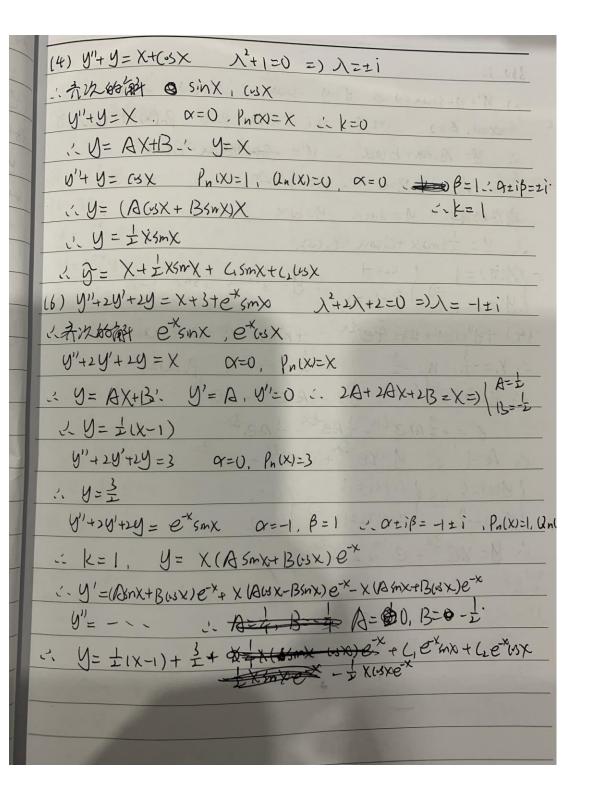
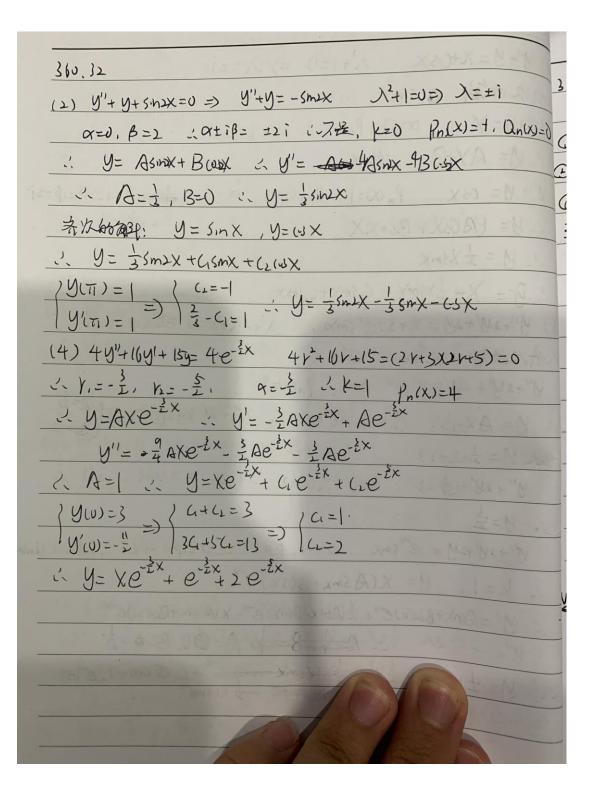
```
359.25
          Beil: (1+2x-x2)ex+(x2-3)ex+(2-1x)ex=0
                                                                                                                                                                                                                                                                                                             2) 9.
                                                                                                                                                                                                                                                                                                                     y2=
           y' = 20 y' = 20x+b
         1. (H2x-x²)(20) + (x²-3) (20x+b) + 2(1-x) (x²+6x+c) 20
                                                                                                                                                                                                                                                                                                                   5=
                                                                                                                                                                                                                                                                                                                359.
        = -bx^2 + 2(b-u-c)x + 2u - 3b + 2c = 0
                                                                                                                                                                                                                                                                                                                       y"
          12 b=0, a=-C. 2 3 a=1, c=4
                                                                                                                                                                                                                                                                                                                     A)
      y= (,ex+ (1(x2-1)
                                                                                                                                                                                                                                                                                                                           级
      359, 2924. 2000 = 19.
       (1) exust = otsx + ( 7x
       (4) 新兴 = 1 二相关.
      359.27
     (2) y"- &y' = + (1+ = 1/2)y =0. y, = X65 X
    1- 42= XUSX / xts e-5- dx dX = XSmX
       y= C= X (CIGSX+CLGWX)
   (3) y"- 1/41 y'+ 1/4 y =0, y=ex
  1. Y= ex 5 = es = -1-2x
1. y= c.ex+ (1.62x) (L(2x+1)
    359,27
 11) y_1 = \ln x, y'' - \frac{1}{\text{Kelinkel}}y'' + \frac{1}{\text{Atlinkel}}y'' = 0

\frac{1}{\text{In}^2 x} e^{\int \frac{1}{\text{Kelinkel}}y'} e^{\int \frac{1}{\text{Kelinkel}}y''} e^{\int \frac{1}{\text
     1. y= X 2. y= C1X+ColnX
```



US Not - N FT - "N . MASSA
354.29  (4) 9'
(2) 9-29-29=0
1, N=(6,40)x
(1) 101/11/14 = () -) ()+3/2-() =) \( \) \( \) = -3
X VOIX
$\frac{y=C_1e^{-\frac{1}{2}}(1+y=0)}{(6) y'''-y'+y=0} \Rightarrow \lambda^2-\lambda^2-\lambda^2+1=0 \Rightarrow (\lambda+1)(\lambda-1)^2=0$
2. y=4e*+4xex+4xex
269.20
(2) $y'' - 4y' + 3y = 0 = \lambda^2 - 4\lambda + 1 = 0 = \lambda = 1, \lambda = 3$
1. y=4ex+ 4 e3x /y(10)=1=) (+4=) (1e+6)e3=1
y'(0)=2=) (+3(-2) C(e+3(re)=2)
y=100 ext + exx y=-ext+3exx
(4) 9"+9y=0 => x+9=0 => x= ±3i
<- Y= C15in3X + (205)X ) y (3)=0=> -620
タ(で)=( =) -3に21
C. y= -1 sin3X
3(0.3)
(2) $\{y''-y'-2y=xe^{x}  \alpha=1, \ \{n(x)=X\}$
(人・ハーレ=0=) (3人を211141) 20=) 入二方、八二方
八齐水的融物 exx e-xx = xxxxxxx
1. $y = (A \times + 13)e^{x}$ $y'' = (A \times + 13)e^{x}$ , $y'' = (A \times + 13)e^{x}$ 2. $y = (A \times + 13)e^{x}$ $y'' = (A \times + 13)e^{x}$
2. y= 18=3, B= -9 2. y= (\$X-\\\\)10^+ 4620-5x





360,33 ① 两个本文te. 入, <0, 入, <0 < fix)= Gent (ce)x, limitize) ① 道根·入=-=acocitix)= Cienx+ Cixex ci limitix)=0 ③-对金拉 记入= α+βi : fix)= Gersmbx+Ciercspx: limitic)20 360.35 . 35  $y = \int_{x}^{x} t y(x-t)dt + s_{m}x = \int_{x}^{\infty} (x-u)y(u)d-u + s_{m}x$ y=X,xy wodu + sxuywodu+sxx  $y' = \int_0^x y(u)du + xy - xy + (-1)x = \int_0^x y(u)du + (-1)x$ 2 y"= y-snx =) y"-y=-snx -ハ²-1=0=)ハ=±1 : 赤水粉料 ex, ex α=0, β=1 1 α± β= ± 1 λ/2 λ = 0 1 y= Asmx+ 13cox U"= A SMX-BEWX -1. -2AMX-2B(45X =-5MX =) A=1,13=0 1 Y= 15nx+4ex+ (1ex => y(v)=0. (y'(v)=1 1 1= 1mx+4ex-4ex 360, 36 X(t), X'(v)== -1.5 mls X"(v)=0 T = mx"(t), F=-KX(t), To = 0x. K=> K= Log (1 - KX(t) = m X"(t) =) X"(t) + (0) X(t)=0 m = 3 kg 12- (w=0=) )=== (0) = X(t)= C, e==t+ Ciest \* ×10)=0, X'(0)=-1.5 m/s => X(+)= 40 0 - 40 0 +. メナローントニナジi ハ X(+)= GS的なナトなのなも、 X(v)=0, X(v)=1.5=) X(t)=+ 10 Sm(3t.

360,39 (1)(D(D-1)-3D+3)y=0=> x2-4/+3=0=> x=1,1=3 1. U= C, et + C, est = C, X + G, X (3)(9)(1)-1)+3)+1)y=0=) 9x2-6)+1=0=) 1=== y= Gest+ Gtest = GX3+GX3 |n|x| (3) (D(1)-1)+Q+4)y=2x/nx=) x2+4=0 2) x=+2; · 方次的的 Sin1X, Cis2X Smit, Cis2t 2xlnx=2tet =) ==1. Pn=t : y= (AttB)et ( y"+ 4y = 2tet - y'= (At+13+A)et, y'= (At+2A+13)et 1. y= 3+1 (3+1) e+45mit +(1) 2+. 1. y= (3/n/x1-4) X+ 45m2/nM+ L2 (42/h/x)