```
Problem 1.
   対 yc: λ² 2λ=0 λ=0/2 =) yc= A+B·e2x.
      91: Cex (Cex) "-> (cex) = 2ex => 4p2 - 2ex.
                             =) y (1)=-1 y'(1) =0
           y = A+18e = 2e x
                                 => B= = A=e1
         =>y=e-1+e2x+ - 20x 2ex
Question 2.
  11 パインハナ2=0 コルニーはi
                                                      cex.
                                           4/2-
                                                  TEOSX: D, XCOSX+D2 XSINX + D2 COSX + D4SINX
       = yc= e-x (Acos + + Bainy).
          Cex+7Cex+7Cex=6x=5C=2
       y= e-x: (Acosx+Bsiny) + ce x +(D, xcosx +D2xsinx+D3 asx +D+shx)
   w) λ++5 x+ + 4 = 0. => >= ±2i, ±i
                                                 SILLX COSIX:
                                                  Mp= B1 94x0052x + B28142x005x.
      =) y c= A1- cos 2x + Aquin 2x + A3 cosx + A4 sinx
                                                     + B3 OS X0052x+1345111x51112x.
     3424C+422 A1COS2X+182SIN2X+182COSX+1845MX+18151NXCOS2X+1825102X005X
                                               + By cosx cosx + Bysinxsinxx
   R) / = 1 × 1 = 0 = 1 × = 1 × (A+Bx) · 6 x
      Yr: xe-x: B1. X.e-x + B2 e-x
          YCOSX : G YCOSX + C2 XSMX + C3 COSX + C4 SINX
           4= CAHBX). ex + BIXEX + BIZE-X +CI XCOSX+C2XSINX + C3COSX +CGSIN
    Questry X=4y-y
                                                         y=x-2x.
              -> y-4y-2y+8y-7y=0.
                                                        x-2x-4x+8x+x=
              => y" - 6y + 9y = 0.
           >> > 1 - 6 >+ 8=0 -> >=> >1 = 32= 3.
                                                         x=e3x (1317/32)).
               y= A e3x (AITIBLX)
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