@ YN + 941 +3 4=18

m2 + 1m + 3 = (m+1)(m+3)=0

m= -1, -3

10 00 1 CE 3x

4p= A yp'= D y'=0

2A = 18 -0 A-6

C, 0" 1C, 0" + %

y" - 124 + 39 = 120 +5

m2 - 12 m = 36 = (m-6)2 =0

y = C = " + C = 8 = 6 =

YP = A X = B yp 1 = A gp " = O

-12 A + 3 @ A + 3 B = 12 x +5

364 X= 12 X 36B-124=5

 $A = \frac{12}{36} = \frac{1}{3}$ $368 = \frac{29}{8}$

y11-8y1+20y = 100x2-65xex

m2-8m+20=0 m= 8±169-80

m= 9+ 2;

y=' e 4x (c, cos 2x + c, sin2x)

4p = 5x2 + 4 x + 1/16

4p=Ax2+Bx+1

y= 4 ex + 6 ex + 3 x+

16: = 24 x + 13

10 = ZA

2A-16A x=88+20 Ax2+20 Bx+70

= 100 x2

4 = 5 - 16A + 26B = 0

B = 16.5 = 4

206-8B-2A

```
You = (0x+0) = "
You' dox + E + D) e'
Yp' = 10x+& +20)e"
Dx+ E +20 - 80x - 86-80 + 260x + 708- 65x
1 1 6 2 (c, cos(2x) + c, 30 (2x)) + 5x2 + 4x + 11 - 5x6 - 50/3 ex
  411+241=2x+3-e-xx
                                        4pi= Ax2+ Bx
                                         402 = (x 0-2x
  m2+2m = mm + 21=0 mp0-2
                                       2A+2 2Ax+28:207
    g = Ge-2x + cae
                                        9 A = 2 7 (A+B) = 7
                                       A= 1/2 8=7-1 =3
     Jp1= 1 x2 + 2x
                                   4p2 = Cxc 2x + 23Cxc - ex
                                   10" = -3(e -2x 1 -3(e -2x +66/2)
4= ( = 2x + (2 + 1 x2 + 3x + 1 x0 -2x
                                     · 60e -2× 1 60× = 2x + 36e - 661
                                           - 3 Ce = e - 2 +
3 y"+4y=6sin(2x)
 Y = 4 + 40
 40' - 4" + 94= C 4= + nv
 m2 emx + 9e x = 0 e x (m2+4)=0
  m2 + 40 -0 m2 -4 -0 m = + 54 = +2
                                              6/4: 3/2
    m = - 2 = m = 2
   e2x = ( co) (2x)+ sin (2x), e2(x) = co(-2x)+ sin(-2x)
     You ( co (2x) + (25) 12x) -3/2 x cos (2x)
```