QU7 #6 MTH 225) 1,911-41-49+49=5-8+48-4 911-911 - 441 + 44=0 4=C, ex +62e 2x (e3x)"-(e3x)"-4(e4x)"+4e4x=0 egx (43-42-44+4)=0 (e4x) = 93e4x (e3x)=92e4x (eyx) = e4x 4 43p4x-y2e4x-4e3x9+4e4x=0 eyx (53-52- 47+4)=0 9=1,9=-3,5=2 (4-1) (4+2) (4-2) =0 4=-7 4=2 7=4e2+62e2x+63e2x 411-411-49 +44=05-ex+e-x

W) H 552 1. 9(x)=5 9=40 001-00 11 - 40.0 + 400 =5 Va0=5 9=5 の一年 911 -411-451 +45 =- ex (doxe) = (doxex) - 4(doxex) + 4doxe = -e $(\alpha_0 \times e^{\times})^{11} = \alpha_0 (e^{\times} + 3 e^{\times})$ 00(exx+3ex) - (a0xex) - 4(a0xex) + 40xe (a rex) = a cexx+zet) (00 xex) = 00(extext) a o (exx+3ex - a o (exx+zex) - 40 o (extex) +claoxex=-ex -30,ex=-ex

gift equinor) quiz 481 リニラメセメ 4= ex / Yez 4P3 9CE) = e-x 9=00€ (10e-x) = -00e-x (00e-x) =00e-x (00e-x) = -06e-x = 00e-x - 00e x - 4(-00e-x) +400e-xe-x 6 voe- = p -> 4= te-x

Quit #6 (MTH 225)

1. $4 = \frac{5}{4} + \frac{e^{x}x}{3} + \frac{6}{8}e^{-x}$ The general solution is $9 = c_{1}e^{x} + c_{2}e^{-2x} + c_{3}e^{2x} + \frac{5}{4} + \frac{e^{x}x}{3} + \frac{1}{8}e^{-x}$

2.
$$g'' + 29' + 49 = \chi^2 e^{-\chi}$$
 $g''' + 29' + 9 = 0$
 $(e^{9\chi})^{11} + 2(e^{9\chi})^{1} + e^{3\chi} = 0$
 $(e^{9\chi})^{12} + 22e^{9\chi} \times (e^{9\chi})^{1} = e^{4\chi}$
 $(e^{9\chi})^{12} + 22e^{9\chi} \times (e^{9\chi})^{1} = e^{4\chi}$
 $e^{4\chi}(4^2 + 29 + 1) = 0$
 $e^{4\chi}(4^2 + 29 +$

2. queral sulunon is

9-4-4

9-4

9-4

12

QUIZ #6/MTH 725) 3. 411-441+84= x3) 4(0)=2. 4(0)=4 (62x) = 520 xx 111-491- +84-0 9=e4x (e4x)" - 4(e2) +8e7x =0 (e"x) = e"x9 42 84x -48 4x3 +8 84=0 exx(42-47+8)=0 (42-44+8)= (4+2 9 = - (+4) + 1(-4)2 - 4(1)(8) = 2+21 4 = = (-4) - V(-4)2 - 4(1)(8) = 2 - 2; 1 4=e 2x (c, (os (x)+c2 s, n(2x)) 9(4)= 43 9=00+3+a, x2+a, x2+a, x+a, - 491 t84 = x3 8 do x+2ai () a6+2+22, ++00 +860, 13+ d 1 x3 tazx taz) = 13

ans #18 [WILL 552) 9-20 +3 + a, +2 +a 2+ +a3 (aox3/ta, x2+a2x+0/3)"=800++201, (00 x3+0, x2 tazt tas) = 300 x2+20, x402 Baox + 2a, -12ao+2 -8a, x-4az+ 890 x3 +80112+8012 X+801 = +3 Yao+3+(-1200+8n,)x2+8a,0-8n,+8m2)+ + (701, -402+80g) = 1-+3 = 600 - 801 + 803 0 = -1200 + 807 -0.000 + 807No = 10 0= -12(=) +8a, -[0 = 2a, -4az +8az 0 = 86) -8a, +8az

20,244 (N) TH 205)
$$a_1 = -\frac{3}{2} + 8a_1$$

$$a_1 = -\frac{3}{2} + 8a_1$$

$$a_2 = \frac{3}{18} + 8a_2$$

$$a_3 = 0$$

$$a_3 = 0$$

$$a_4 = \frac{3}{18} + 3x_2$$

$$a_5 = \frac{3}{18} + 3x_2$$

$$a_7 = \frac{3}{18} + 3x_2$$

 $4 = \frac{1}{8} x^{3} + \frac{3}{18} x^{2} + \frac{3}{32} x + 0$ $4 = \frac{1}{8} x^{3} + \frac{3}{18} x^{2} + \frac{3}{32} x + 0$ $4 = \frac{1}{8} x^{3} + \frac{3}{18} x^{2} + \frac{3}{32} x + 0$ $4 = \frac{1}{8} x^{3} + \frac{3}{18} x^{2} + \frac{3}{32} x + 0$ $4 = \frac{1}{8} x^{3} + \frac{3}{18} x^{2} + \frac{3}{32} x + 0$ $4 = \frac{1}{8} x^{3} + \frac{3}{18} x^{2} + \frac{3}{32} x + 0$ $4 = \frac{1}{8} x^{3} + \frac{3}{18} x^{2} + \frac{3}{32} x + 0$ $4 = \frac{1}{8} x^{3} + \frac{3}{18} x^{2} + \frac{3}{18} x^{2}$