QU7 476 MTH 225 1,911-911-49 + 49=5-8+48-4 911-911-441 +44=0 4=C1ex+62e-5x+(2e3x (e3x)"-(e3x)"-4(e4x)"+4e4=0 egx (43-42-44+4)=0 (e4x) = 93e4x (e3x)=92e4x (eyx) = exx 9 43p4x-y2e4x-4exx9+4e4x=0 eyx (53-52- 47+4)=0 9=1,4=-34=2 (4-1) (4+2) (4-2) =0 4=1 4=-2 4=2 7=(1ex+(2e-2x+(2e2x 411-411-49 +44=05-ex+e-x

(a) 
$$\frac{1}{9}$$
 (b)  $\frac{1}{9}$  (c)  $\frac{1}{9}$  (c)  $\frac{1}{9}$  (d)  $\frac{1}{9}$  (e)  $\frac{1}{9}$  (

リニラメセル Part WILL 4= ex / 4ez 4P3 9CE) = e x 4=00 € (10e-x) 11 = -a0e-x (doe+)"=00e+ (00e-x) = -00e-x = 00 e-t - 00e t - 4(-00e - t) +400e-te-t 600e-x=0-> 4= te-x

1.  $4 = \frac{5}{4} + \frac{1}{8} + \frac{1}{8}$ 

$$\frac{2 \cdot 9^{11} + 2 \cdot 9^{1} + 9 = x^{2} e^{-x}}{9^{11} + 2 \cdot 9^{1} + 9 = 0}$$

$$\frac{(e^{9x})^{11} + 2(e^{9x})^{1} + e^{9x} = 0}{(e^{9x})^{11} + 2 \cdot 2 \cdot 9^{1}}$$

$$\frac{(e^{9x})^{11} + 2(e^{9x})^{1} + e^{9x} = 0}{(e^{9x})^{11} + 2 \cdot 2 \cdot 9^{1}}$$

$$\frac{(e^{9x})^{11} + 2 \cdot 2 \cdot 9^{1}}{(e^{9x})^{11} + 2 \cdot 2 \cdot 9^{1}}$$

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$$\frac{(e^{9x})^{1} + e^{9x} + e^{9x} + e^{9x} + e^{9x} = 0}{(e^{9x})^{1} + e^{9x} = 0}$$

$$\frac{(e^{9x})^{1} + e^{9x} + e^{9x} + e^{9x} + e^{9x$$

2. geral solution is

9-2 (1e-x + (2xe-x + e-x + 12)

Qui #6/ MTH 725] 3-411-441+84= x3) 4(0)=2 4 (0) = 4 111-49 +84-0 9=enx (62,x) = 53 6 xx (e4x)" - 4(e") +8e" =0 (eux) = exxs 4264x -464x3 t864=0 exx(2-47+8)=0 (42-44+8)=(4+2 9=-(+4)+/(-4)2-4(1)(8)=2+21 4 = = (-4) - V(+4)2 - 4(1)(8) = 2 - 2; 4=e2x (c, (os (x)+ (2 5, n(2x))) 9(4)= 43 9=00+3+a, x2+a, x+a, x+a, 411 - 491 to4 = x3 8 do x+2a1 () a0x2 + 20, 1+0 0 + 8 a0 P4 a 1 13 (azt taz) = 45 

18/15 #2 [ WILL 552) 9=00 +3 + 0, +2 ta 2 + +03 (0x3)+0, x2+0,2×+0/3)"=800++201, (00 x3+0, x2 tast tas) = 300 x2+20, x402 Baox7+2a,-12ao+2-8a,x-4az+ 890 x3 +80,13+80,2 x+80, = +3 Yao+3+(-1200+8n,) x2+800-8n,+802)+ + (201, -40, 2+80g) = 1-+3. = 0 = 20, - 40, +8 m3 = 600 - 80, +803 0=-1200 +80, -0= -12(=) +8a, [0 = 2a, -4az +8az 0 = 86) -8a, +8az

$$Q_{1} = \frac{3}{2} + 80$$

$$Q_{1} = \frac{3}{2} + 80$$

$$Q_{1} = \frac{3}{15}$$

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$$Q_{2} = \frac{3}{15}$$

$$Q_{3} = \frac{3}{72}$$

$$Q_{2} = \frac{3}{72}$$

$$Q_{3} = \frac{3}{72}$$

$$Q_{3} = \frac{3}{72}$$

$$Q_{4} = \frac{3}{72}$$

$$Q_{5} = \frac{3}{72}$$

$$Q_{7} = \frac{3}{72}$$

$$Q_{$$

QUZ \$16) NOON WATEREN WITH 536 4= = x3+3 x2+3 x+0  $y = \frac{x^3}{8} + \frac{3x^2}{18} + \frac{3x}{32}$ Soltre ((XZMiss) 7=e2x (2cos (2x)-3/84 Sin(2x))+x3/8+3x2/3x