Noor MUSTUFED MTH 225 1.69"+6'-9=0 4,=ex3 0x2411 +x91-x9=0 12 EX) = V(X)9, (X) 72 = Ve X/3 42 = Vex3+2 ex3 72"=v"exs+= exs+= exs+= exs+= exs 42"=ex3[v"+33v"+19v] dex3[v"+2/3v"+4v]+ex[v++3v] - ex3 [V] = 0 Bv"+v'に4+1コ+vに多+ま-1コ=0 du"+5v1=0 V'=W V''=W' 6w'+5w=0  $\int \frac{w'}{w} = \int -\frac{5}{6}$ In (w)= - 5/2x+C Page 1 w=ke-5/6X

continues >>

Noor mustates (NTH 225) Page 2)

$$\frac{\partial V}{\partial x}(v') = Ke^{-5/6X} - 3X$$
 $\frac{\partial V}{\partial x}(v') = Ke^{-5/6X} - 3X$ 
 $\frac{\partial V}{\partial x}(v') = Ke^{-5/6X} - 3X$ 

5(x)=97+62/2=(jex/3+62e-x/2

Nool mostored ) ANH 225 |

2. 
$$\chi 9^{11} + y^{1} = 0$$
  $\gamma_{1} = 1n\lambda$ 
 $\gamma_{2} = v^{1} \ln(x) + \frac{v}{x}$ 
 $\gamma_{2}^{11} = v^{11} \ln(x) + \frac{v}{x} + \frac{v}{y} + v(\frac{-1}{x^{2}})$ 
 $\gamma_{2}^{11} = v^{11} \ln(x) + \frac{v}{x} - \frac{v}{x^{2}} + v(\frac{-1}{x^{2}})$ 
 $\chi = v^{11} \ln(x) + \frac{v}{x} - \frac{v}{x^{2}} + v^{11} \ln(x) + \frac{v}{x} = 0$ 
 $\chi = v^{11} \ln(x) + v^{1} (z + \ln(x)) + v = 0$ 
 $\chi = v^{11} \ln(x) + v^{1} (z + \ln(x)) = 0$ 
 $\chi = v^{11} \ln(x) + v^{11} (z + \ln(x)) = 0$ 
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 $\chi = v^{11} \ln(x) + v^{11} (z + \ln(x)) = 0$ 
 $\chi = v^{11} \ln(x) + v^{11}$ 

Now MITH 225)

$$= \int \frac{1}{x \ln x} \left( \frac{1}{x + \frac{1}{x}} \right) \frac{1}{x + \frac{1}{x}} \frac{1}{x +$$

Noor multaren (MTH 225) pase 3)

$$V = \frac{1}{c^{2} \ln cx} + \frac{1}{c^{2}}$$

$$y^{2} = \ln cx \left[ \frac{1}{c^{2} \ln cx} + \frac{1}{c^{2}} \right]$$

$$y^{2} = -\frac{1}{c^{2}} + \frac{1}{c^{2}} \ln cx$$

$$y^{2} = -1 + \ln cx$$

$$y^{2} = -1 + \ln cx$$

$$y^{2} = -1 + \ln cx$$

Noor mytapy MTH 225) Page 1) 3. x29"-3x9 +54=0) 4,=x2 coscinx) 0x29"+6x41+64=0  $x^{2}((x^{2}))^{1}-3x((x^{2}))^{1}+5xE-0$  $(X_{1})_{11} = LX_{1}-5(1-1)$  $\chi^{2} r \chi^{-2} (r-1) - 3 \chi (\chi^{2}) + 5 \chi^{-2} 0$  $(X_{l})_{l} = L \times_{l-1}$ X31X1-5 (1-1)-3X1X1-1+5X7=0 X2 (x1-2 (1-1)-3x1x1-1+6x1=0 LSXL-ALXL+OXL-D ptactur Xr X(112-41+5)=0 XY = O X 12-41+5=0 (1,2 = -C-4) ± JE-40 (5) 0=1 6= =4 C=5 (continued)

MOOL WATCHER MUH SSS JEROSES 3, r=-(-4)+ J(-4)=4(1)(5); Z+i r=-(+4) - J1-4)=-4(1)(5) 1 2-1 (I+12- G=atip general solvarion 7=xa((, (9(8)n(x))+(25,n(8)n(x))) 7=x2(c, cos (incx))+czsin(incx))