Atroidade 02 - Corcuitos 3- Utiendala Eloina Pomenta

$$\frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} + 5 \frac{1}{\sqrt{2}} - 3 \frac{1}{\sqrt{2}} (x) = 4x^{2} - 2x + 6 \qquad y(0) = 1$$

$$\frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} + 5 \frac{1}{\sqrt{2}} = 3 + 2 = 3$$

$$\frac{1}{\sqrt{2}} = 35 + 12 = 37$$

$$\frac{1}{\sqrt{2}} = -5 + 12 = 37$$

$$\frac{1}{\sqrt{2}} = -2 + 12 = 37$$

$$\frac{1}{\sqrt{2}}$$

(2)
$$\frac{1}{2} \frac{1}{2} \frac{1}{2}$$

Scanned with CamScanner

3
$$2\frac{d^2x}{dx^2} + 5\frac{dx}{dx} + 3y(x) = 3e^x + 2e^{3x}$$
; $y(0) = 5$
 $2\pi^2 + 5\pi + 3 = 0$ $y(x) = \frac{3}{150}e^x + \frac{3}{150}e^x + \frac{3}{150}e^x$ $y'(0) = 2$
 $2\pi^2 + 5\pi + 3 = 0$ $y(x) = C_1e^x + C_2e^3x^x$
 $3\pi^2 + 5\pi + 3 = 0$ $y(x) = C_1e^x + C_2e^3x^x$
 $3\pi^2 + 5\pi + 3 = 0$ $y(x) = Ae^{5x} + 6e^3x$
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 $3\pi^2 + 3e^{3x} + 3e^{3x}$
 $3\pi^2 + 3e^{3x} + 3e^{$

4(0) = C+C2+1/2=5 => C+C2=130-2-13-127 CITC2=172

 $y(x) = c_{1}e^{x} - \frac{3}{3}c_{2}e^{-3}e^{x} + 5e^{5x} + 3e^{3x}$ $y(x) = c_{1}e^{x} - \frac{3}{3}c_{2}e^{-3}e^{x} + 5e^{5x} + 3e^{3x}$ $y(x) = c_{1}e^{x} - \frac{3}{3}c_{2}e^{-3}e^$ $y(0) = C_1 - \frac{3}{2}C_2 + \frac{5}{26}C_3 + \frac{3}{26}C_3 = \frac{2.26}{26}$ $C_{1} = \frac{1725}{26.5} \frac{133.2}{65.2} = \frac{599}{2.26.5} = \frac{297}{26.5} \frac{1}{130}$

 $\frac{5}{3}$ Ca = $\frac{133}{265}$ = 7 Ca = $\frac{133}{65}$

(4) da + 2019 - 5y(x) = Nen4x + 2cos4x パ2+2n-5=0 N=4+20=24 $\mathcal{R} = -2 \pm 2\sqrt{6} = -1 \pm \sqrt{6} = \sqrt{\frac{71}{12}} - 1 + \sqrt{6}$ YH(X) = C1-0 + C20 + C20 Yex) = Alen4x + BKos4x y'p(x) = 4 A cos4x + 4B(-sen4x) = 4Acos4x - 4Bren4x -16 Asen4x -16 Brown x + Bit Cos4x - BBNen4x 441 168 4 +24 - 54 = Semux +2 con4x -(21A+BB) ren4X+(BA-21B) Ken4X= 7en4X+2Cen4X = (21A + 60) = -1 21A + 6B = -1 = > 168A + 64B = -8 505 = -308 = > 64 = > -168A + 44B = -42 = > 64 = > 6ANDAMB DONA $\frac{8 A = 2 + 21B = 2 - 200 = 202 - 200}{101} = \frac{-8}{101} = \frac{-1}{101}$ $\frac{(-1+16) \times (-1+16) \times}{101} = \frac{100004 \times}{101} = \frac{-8}{101} = \frac{-1}{101}$ $\frac{(-1+16) \times (-1+16) \times}{101} = \frac{-1}{101} = \frac{-1}{101}$

$$8\frac{d^2y}{dx^2} + 10\frac{dy}{dx} + 3y(x) = 5x + 6$$

(B) dy + loy(x) = loex $n^2 + 10n = 0$ $A = 10^{2}$ x = -0 = -5 = 0 $a_{2} = -10$ Y(x) = CIM + Cae lox $y_p(x) = Ae^x \rightarrow y_p(x) = Ae^x \rightarrow y_p(x) = Ae^x$ Aex+10 Aex = 10ex => 11 Aex = 10ex A+10 = 10 => A=0 imported, La A=10 Your Axe + Axe yell - Her Axe 2 Aex + Axex + 10 Aex + 10 Axex = 10 ex y(x) = C+C2E + 19ex

124-3X-5 - 2000 .

ABK

$$\frac{3x^{2}-5x}{2}-\frac{5x^{2}}{2}$$

$$\frac{3x^{3}-5x^{2}}{2}$$

$$\frac{x^{3}-5x^{2}}{2}+K$$