Contro Lie Iguer Almoida Santes 20150465 LWOS - CI a)24" - 31 4" + 124" + 94 = 0 2 n3 - 11 n2 + 12n+9 = 0 VN= -51 195194 1(3) = 0 1= +5± 1 2n° - 5m -3=0 K= +5 + V(+5) - 4(5)(+3) 2(9) Y(x) = C, e3x + Cax e3x + Cae3x Vunticant: 11 = 3C, e3x + Cge3x 3Cxex - 3C3e13 y"= 9 C, e3x + 3C, e3x + 3C, e3x + 9C, x e3x + 1 C, e-1/3x = 9 C, e3x + 6 C, e3x + 9 C, x e3x + 1 C, e 1/8x y"= 27C, e3x + 18C2 e3x + 9C3 e3x + 97C3 xe3x - 18 C3 e3x = 97C1 e3x + 27C2 e3x + 97C2 x e3x - 4C2 e-3x Sulr Dand: 54C, e3x + 54Ge3x + 54Gexe3x - 14C3e33 - 99Ge3x - 66Ge3x - 99Gxe3x - 11Ge3 + 36C, e3x + 36C3x e3x - 6Gexe3x + 9C3e3x + 9C3x e3x + 9C5ex = 0 x 44111 - 134" + 94 = 0 14-13n+9=0 0 = (2)N

credeal

|  |  |  |  |   |  |  | and the second   |                            |
|--|--|--|--|---|--|--|--|----------------------------|
|  | 444-3  | 13 19 +9 =0  | 3.   | 9.0   | -13/1  | 2/9  |  |                            |
| the the  | n(s)   | = 0  | -1   | 49  | -91-<br>-9 (                                       | 9,0  |  |                            |
| Market and the second s | and the second of the second s | no la completa de la   | e en als consist of consistence  | 4.0   | -9 (   |  | and the second s |                            |
| 4n3, 4n9-91  | -9=0   |  |  | Exit  | Commence of the second                             | and the state of t |  | · consisting of the second |
| M(-1) = 0  | and the second s | Andrew on James Power age - Afficience   | and the second s   |   | and the second second                              |  | *  |                            |
| H45104-d=  |  | an also analone productive in the second   | ma tana and a samuel and the or  | ·××   | -3,  | <b>C</b>   |  |                            |
| 4n2 = 9  | : 767  | )= C,e×+C.   | ie t   | Cse +   | Cye  | and the second s | grade grades forgalisates described  |                            |
| H2- 9/4  |  |  |  |   |  | And the same   |  |                            |
| n= = 594   |  | c,ex + Coe   | +30 Co   | @_30C   | 46   | a parameter and all the second second  |  | *****                      |
| n=± 3/2  | √"= C  | ie + Cae   | + 94 C3  | 63 + 1/1 (  | -4 e 3   | <b>V</b>   |  |                            |
| 1  | \\" = (  | -ex + Cae  | + 27/20  | 303x-   | 18 CHE   | 1X   |  |                            |
|  | Y''' =   | C, e× + Co E   | × + 8/16   | Czesx +   | 8×16 C4e   | 9  |  |                            |
| lasticano:   |  | and the second s   |  |   |  | 1 2  | 48   |                            |
| 4 Ciex tyes  | e-x+346 5e3  | (1e <sup>-35×</sup> )=<br>5× +34/1646<br>1e <sup>36×</sup> +9666   | 34 - 131   | Zje*-335  | se - 117/  | C363×  | 112/   | 7-3x<br>48 _               |
| 4 CTE* +1C;<br>+9 CTE*+9   | e-x+33% Se3  | 1× + 304 1646  | 134 - 134<br>- 329X =  | 0 1   | Kalueca  | 41,  | 11/2/  | 7-3×<br>40                 |
| 4 C1 ex +4C2   | e-x+346 Se3  | : y = C, e   | 73/2 - 13/1<br>73/2 =<br>X + Co 6  | O 1'  | Kalueca  | 41,  | 1121   | 7-3×<br>.4e                |
| 4 C1 ex +4C2   | e-x+346 Se3  | : y = C, e   | $\frac{3}{3}$ - 131<br>$\frac{3}{3}$ × - 23<br>× + C3 (3<br>$\frac{2}{3}$ + G)   | $O = x^4$   | Halueco<br>3% +C4É                                 | 41,  | 112/1  | 7-3×<br>-18                |
| 4 C1 8 +4 C3   | e-x+346 Se3  | : y = C, e   | $\frac{3}{3}$ - 131<br>$\frac{3}{3}$ × - 23<br>× + C3 (3<br>$\frac{2}{3}$ + G)   | $O = x^4$   | Halueco<br>3% +C4É                                 | 41,  | 15%  | 7-3×<br>-18                |
| 4 CTE* +4C;<br>+9 CTE*+9   | e-x+346 Se3  | : y = C, e   | $\frac{3}{3}$ - 131<br>$\frac{3}{3}$ × - 23<br>× + C3 (3<br>$\frac{2}{3}$ + G)   | $O = x^4$   | Halueco<br>3% +C4É                                 | 41,  | 11240  | 7-3×                       |
| 4 CTE* HC;<br>+ 9 CTE* + 9   | e-x+346 Se365 Se36 Se36 Se36 Se36 Se36 Se36 Se36 Se36  | : y = C, e   | $\frac{3}{3}$ - 131<br>$\frac{3}{3}$ × - 23<br>× + C3 (3<br>$\frac{2}{3}$ + G)   | $O = x^4$   | Halueco<br>3% +C4É                                 | 41,  | 1020   | 7-3×                       |
| Horex Hills<br>+ 9 Crex+ 9   | e-x+346 Se365 Se36 Se36 Se36 Se36 Se36 Se36 Se36 Se36  | : y = C, e   | $\frac{3}{3}$ - $\frac{3}{3}$ = $\frac{3}{3}$ × + C <sub>3</sub> 6   | $O = x^4$   | Halueco<br>3% +C4É                                 | 41,  | 112/10   | 7-3×                       |
| 4 CTE* +4C;<br>+ 9 CTE*+ 9   | e-x+3116 se3<br>(Sex+95)<br>2 Who King   | $x^{2} = x^{2} = x^{2$   | $\frac{3}{3}$ - 131<br>$\frac{3}{3}$ × = $\frac{3}{3}$ × + C <sub>3</sub> 6<br>$\frac{2}{3}$ + G) \( \frac{2}{3} + G) \( \frac{1}{3} + Z <sub>2</sub> =  | $C = x^{4}$ $= x^{2} x \cos x(x)$   | λαθυξώς<br>3% + C4€<br>×)                          | <b>3 2 3 3 3 3 3 3 3 3 3 3</b>   | 1126   | 7-3×<br>18                 |
| 4 CTE* +4C;<br>+ 9 CTE* + 9  | e-x+346 Se365 Se36 Se36 Se36 Se36 Se36 Se36 Se36 Se36  | $x + 3 \frac{1}{3} e 4 e^{3x}$ $e^{3x} + 9 e 6 e^{3x}$ $\therefore y = C_1 e^{3x}$ $y = x^2 e 5 (x)$ $= x^2 e 5 (x)$ $= x^2 e 5 (x)$   | $\frac{3}{3}$ = $\frac{3}{3}$ = $\frac{3}{3}$ × + C <sub>3</sub> ( $\frac{3}{4}$ + C <sub>3</sub> ( $$ | $C = x^{4}$ $= x^{2} x con(x)$ $2x con(x)$                                    | xalueco<br>3% + C4e<br>x)<br>x+ x²eσ(              |  | 1020   | 7-3×                       |
| 4 CTE* +4C;<br>+ 9 CTE*+ 9   | e-x+34 5e3 165e-x+95  2 y"-  2 Who king  1, 1, 1   | $x + 3 \frac{1}{3} = 4e^{\frac{3}{4}} + 9 = 6e^{\frac{3}{4}} +$ | $\frac{3}{3}$ $\frac{3}{3}$ $\frac{3}{4}$ $\frac{3}$   | $C = x^{4}$ $= x^{2} \text{ bon}(x)$ $2x \text{ bon}(x)$                      | χοθυξώς<br>3% + C4€<br>×)<br>×+ × <sup>2</sup> eπ( | 3*   |  | 7-3×                       |
| 4 C Tex +4C: +9 C Tex + 9 C Tex + 9 C Tex + 9 C Tex + 9  | e-x+346 se' 165e-x196  9 Who King  1, 1/2  1, 1/2  = x'exx (2x   | $x + 34 + 6$ $e^{3x} + 9 = C_1 e^{3x}$ $y = C_1 e^{3x}$ $y = x^2 e x \times x$ $= x^2 e x \times x$  | $\frac{3}{3}$ - 134<br>$\frac{3}{3}$ × - 134<br>× + C <sub>3</sub> 6<br>$\frac{2}{4}$ + G) · 1<br>· 1 / 2 = 1  | $\frac{C}{x^2 \text{born}(x)}$ $\frac{x^2 \text{born}(x)}{2x \text{born}(x)}$ | 12 + Cyé  x)  (5 x con x                           | 3*   |  | 7-3×<br>1e                 |
| 4 C Tex +4C: +9 C Tex + 9 C Tex + 9 C Tex + 9 C Tex + 9  | e-x+34 5e3 165e-x+95  2 y"-  2 Who king  1, 1, 1   | $x + 34 + 6$ $e^{3x} + 9 = C_1 e^{3x}$ $y = C_1 e^{3x}$ $y = x^2 e x \times x$ $= x^2 e x \times x$  | $\frac{3}{3}$ - $\frac{13}{3}$ - $\frac{3}{3}$ × - $\frac{3}{2}$ × + C <sub>3</sub> 6 $\frac{2}{3}$ + C <sub>3</sub> 6  | $C = x^4$ $= x^2 \text{bon}(x)$ $= x^2 \text{bon}(x)$ $= x^2 \text{bon}(x)$   | x + x 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0        | 3*   |  | 7-3×                       |

TUNXY" + (2 bonx -00x) y' + (1000 x - 00x) y = ex Y = e-x , Y = exex W14. X) = - 8-3X DONX μ' = 1, e - x - e 2x bon > tien du= Pooxdx  $\frac{\ln |\ln x| + \sqrt{2}}{\ln x} = \frac{\ln |\ln x|}{\ln x} = \frac{\ln |\ln x|}{\ln x} = \frac{\ln x}{\ln x}$  $y = e^{-x} \ln |y_{00} \times 1 + e^{-x} \cos x$ In13-cox1-In180x+1