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Plankar la Solución final de la Ec. diferencial. Ey. Pespluer y'-3y+20y= 100x2-26xex y = yc + 4p Y y'-3y'+20y =0 ~ m= +3 + 164 - 4(1)(20) $n^2 - 8n + 20 = 0$ $m = 4 \pm 4i = 4 \pm 2i$ $y_c = e^{4x} (cicos 2x + (2 sen 2x)$ g(x) = 100 x - 26 x e YP=AX2+BX+C+(DX+E)e=AX+BX+C+DXe+Eex y = 2xA+B+Dxe+Dex+Eex y"= ZA + DXEX + DEX + DEX + EeX y - By + 209 = 100x - 26 Xe 2A+ Dxex+2Dex+Eex-8(2xA+B+Dxex+Dex+Eex)+2x(Ax+Bx+C + Dxex = Eex) = 100x2 - 26xex 2A+DXe+ZDe+Eex-16XA-33-30Xex-2Dex-3Eex+20AX+20BX + 20C+ 200 xex+29Eex= 100 x2-. 26 xex (2A-2B+20C) = 0 1/2 (D-8D+20D) = -26 XeX e^(2D+E-8D-8E+20E)=0/ X(-16A + 20B) = 0

$$x^{2}(20A) = 100x^{2} - 204 = 100 - 4 = 100 = 6$$

$$130 = -26 = 0 \quad D = -26 = -2$$

$$-164 + 208 = 0 \quad 8 = 164 = 4(8) = 4$$

$$-60 + 13E = 0 \quad 13E = 60$$

$$24 - 96 + 20C = 0$$

$$20C = 88 - 24 \quad 3 \quad C = 82 - 24 = 9(4) - 2(6) = 22 = 11/10$$

$$2 = 9C + 47$$

$$y = 9C + 47$$

$$y = 9C + (1065)x + (280)x + (380)x + (380)x$$

+ 2B cos 2 x - 4A x COS 2 X - 4A & COS 2 X - 4 B X Sen 2 X + 4B COS 2 X t 48 \times Sen $2\times$ + 4AXCOSZX $-44 \sin 2x + 43 \cos 7x = 3 \sin 2x$ -4/4 Sen2x = 3 8m2x = -44 = 3 4=-3 Sol y = yc + 49 y = C1C05? x f C2 fcn2x - 3 x Co5 2x F. Pesolver y .. y _ 4 y + 4 y = 5 - e + e 2x y= yc + 4P $m^3 - m^2 - 4n + 4 = 0$ Vc $M_1 = 1$ $M_2 = -2$ $M_3 = 2$ ye = c1(e) + (2e) + (3(e)) $\frac{4p}{2} \quad g(x) = 5 - e^{x} + e^{2x}$ A Bex Ce2x 47 = A+BXE+CXE 2XX J'= Bxex+ Bex+ 2Cxe2x+ Cexy"= 3xex+8ex+8ex+4cxe2x+2ce2x+2ce y"'= 9xex+ Bex + 23ex + 8cxe2x+ yce2x + 8ce BXE+ 3Be+ 8CKe2X + 12CE2X - 3xx -23ex -4°6xe2x - 4 ce2x

-48xex -48ex -46xex -4ce2x -YA + 418 X e . + (4 C X e 2 0 - 2 4A + 5Bex + 4CXC2x - 4CC2x = 5 -ex + e2x YA = 5 3 A = 5 $e^{x}(-33) = -e^{x} - 3^{-}3 = -1$ xe2x(4C) = 0 = c=0