#7. Y xys Tutoring Notes

#7. Y xys du dy

dx = -tu's du

dx U = Y = Y UM - + u - 4 & + u = x u = x u = x e-w & -44e-w = -4xe-w $f(ue^{-\alpha}) = -4xe^{-\alpha}$ Jax (ue-ax) = 1-4xe-11x ue - 4/xe - 4/xe - 4dx u= x dv = e-4x dx , du = dx , V = -te-4x Ve" = -4[-4xe" + 14e" dx]=xe" + te" +c Ve"= xe" + te"+c , u= x+t+ce" y - 4 = (x + 4 + ce x) - 4 · Undetermined Configuration $(2x_1)$ Y - 10y' + 25y = 30x + 3 $Y = Y_c + Y_f$ for Y_c Y' - 10y' + 25y = 0m-bm +25=0, (m-5) =0, m= 5 twice Ye = Ciesx + Cexesx for you guess 1/= AX+b / = A / = 0 0-10/A) + 25 (Ax +B) = 30 X +3 25Ax + 25 B - bA = 30x +3 , 25A = 30, M. 1, 25B-bA = 3, 18 Y1= = X + = Y= Lc"+Cx="+1.ZX+6.6

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