Eixt- cam Mallimatique (ou moyenne) de X Fix = Simultaneque (ou mojune) ...

In = Simultaneq elm I2 = [uv] to du = [ne-x+5] to f-e-x+5] = dx = +5 + [-e-x+5] = +5+ (A.) = C. also $I_1 = \begin{bmatrix} 5 \\ x e^{x} - 5 \\ dx \end{bmatrix}$ purporties du = dx $dx = e^{x} - 5$ $dx = e^{x} - 5$ dx == 5 - [ex-5] 5- 5-[1] =4 E(X)= 1 I1+ 1 I2= 5 Pour Calculer la variance de X nous calculons d'abord le moment d'ordre 2: $E(x^2) = \int_{-\infty}^{+\infty} \chi^2 f(x) dx = \int_{-\infty}^{5} \frac{1}{2} x e^{x-5} dx + \int_{-\infty}^{+\infty} \frac{1}{2} x e^{x+5} dx$ - 1 /h E(X2) = 2 31 + 2 32 $J_1 = \int_{-\infty}^{5} x^2 e^{x} - 5 dx \quad \langle u = x^2 = \rangle du = 2x dx$ $J_1 = \left[uv \right]_{-\infty}^{5} - \int_{-\infty}^{5} du = \left[x^2 e^{x} - 5 \right]_{-\infty}^{5} - 2 \int_{-\infty}^{5} x e^{x} - 5 dx = \frac{1}{2}$ 五= 25 - 211=25-2,4=17 $\frac{1}{32} = \int_{-\infty}^{+\infty} x^{2} e^{-x+5} dx \qquad \begin{cases} u=x^{2} = x dx \\ dv = e^{-x+5} dx = x dx \end{cases}$ $\frac{1}{32} = \int_{-\infty}^{+\infty} u^{2} e^{-x+5} dx = x dx = x dx$ $\frac{1}{32} = \int_{-\infty}^{+\infty} u^{2} e^{-x+5} dx = x dx$ $\frac{1}{32} = \int_{-\infty}^{+\infty} u^{2} e^{-x+5} dx = x dx$ = 25+212 = 25+ 2.6 = 37 An final t(2) = 1 /1 + 1/2 = 17+37 = 54 = 27 Et Va (x)= E(x2) - [E(x)] = 27 - 5 = 2