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 $\left(\frac{3}{2} + e^{at} - 3e^{2t}\right) + C$ - x2 dx - x2 cosx - S-2x cosx dx (let u= -2x and du= Cosx) dy ac = -2x and V=sinx - 2 x sinse - (-2) § sinx dx - 2005ing - (-2) - (05x+C - 2x517x - 2 Cosoc +1 - - (x2 sinx = - x2 cossc - 2 x sinx - 200500

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 $\int \sin 7x (\cos 2x)$ Let A = 7x (B = 2x) $\int \sin 7x (\cos 2x) = \int (\sin (7x + 2x) + \sin (7x + 2x))$ $\int \sin 7x (\cos 2x) = \int (\sin 9x + \sin 5x)$ $= \int 2 \int [\sin 9x + \sin 5x]$ $= \int 2 \int [\sin 9x + \sin 5x]$ $= \int 2 \int [\sin 9x + \sin 5x]$ $= -\frac{\cos 9\pi}{18} - \frac{\cos 5\pi}{10} +$ $\begin{array}{c} 4) \quad 2x - 3x^{2} \\ 1 - x \quad 2x - x^{2} \\ 1 - x \quad 2x - x^{2} \end{array}$ $2x - 2x^{2}$ $- x^{2}$ $- - 2c^{2} + 2c^{3}$ $- - x^{3}$ Which can now be $\int (2x - x^2) dx + \int \frac{x^3}{1 - x} dx$ $= \frac{2x^2 - x^3}{2} + \frac{x^3 \ln(1 - x)}{3}$