

INTEGRATION BY PARTS

1. Integrate the following function with respect to x $\int 3x e^x dx$

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2. Find $\int x \cos 4x dx$

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3. Find $\int_1^e x \ln x dx$

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4. Find the area bound by the curve $y = xe^{-x}$, the x -axis and the lines $x = 0$ and $x = 2$. Find also the volume of the solid of revolution obtained by rotating this region about the x -axis

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