

NallPro[®] Education Centre

COMPUTER Training & MATH Tuition

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Integration By Parts – 01

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Name: _____

Show all your details work on separate sheet(s) (8½ x 11): And write the final answer on this sheet.

Evaluate each indefinite integral using integration by parts. u and dv are provided.

1) $\int x e^x dx$; $u = x$, $dv = e^x dx$	2) $\int x \cos x dx$; $u = x$, $dv = \cos x dx$
3) $\int x \cdot 2^x dx$; $u = x$, $dv = 2^x dx$	4) $\int \sqrt{x} \ln x dx$; $u = \ln x$, $dv = \sqrt{x} dx$

Evaluate each indefinite integral.

5) $\int x e^{-x} dx$	6) $\int x^2 \cos 3x dx$
7) $\int \frac{x^2}{e^{2x}} dx$	8) $\int x^2 e^{5x} dx$
9) $\int \ln(x+3) dx$	10) $\int \cos 2x \cdot e^{-x} dx$

All MATH Course structured & Tutoring
By:

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Over 15 Years Teaching Experience with NallPro, 5 Yrs w TBE