WebAssign
Hw 9 (7.1): Integration by Parts (Homework)

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MA 162 Spring 2012, section 321, Spring 2012
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Current Score : 20 / 20   **Due :** Tuesday, January 31 2012 11:55 PM EST

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1. 2.5/2.5 points | Previous Answers   SCalcET7 7.1.001.

Evaluate the integral using integration by parts with the indicated choices of *u* and *dv*.

$$\int 5x^2 \ln x \, dx; \quad u = \ln x, \, dv = 5x^2 \, dx$$

✔ + *C*

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2. 2.5/2.5 points | Previous Answers   SCalcET7 7.1.003.MI.

Evaluate the integral.

$$\int 9x \cos 2x \, dx$$

✔ + *C*

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3. 2.5/2.5 points | Previous Answers   SCalcET7 7.1.005.

Evaluate the integral.

$$\int t e^{-10t} \, dt$$

✔ + *C*

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4. 2.5/2.5 points | Previous Answers   SCalcET7 7.1.007.

Evaluate the integral.

$$\int (x^2 + 7x) \cos x \, dx$$

✔️ $+ C$

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5. 2.5/2.5 points | Previous Answers   SCalcET7 7.1.010.

Evaluate the integral.

$$\int \sin^{-1} x \, dx$$

✔️ $+ C$

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6. 2.5/2.5 points | Previous Answers   SCalcET7 7.1.017.MI.

Evaluate the integral.

$$\int e^{2\theta} \sin 3\theta \, d\theta$$

✔️ $+ C$

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7. 2.5/2.5 points | Previous Answers   SCalcET7 7.1.024.

Evaluate the integral.

$$\int_0^1 (x^2 + 1)e^{-x} \, dx$$

✔️

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8. 2.5/2.5 points | [Previous Answers](#)   SCalcET7 7.1.026.

Evaluate the integral.

$$\int_{64}^{81} \frac{\ln y}{\sqrt{y}}\, dy$$

✔

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