Web**Assign**
Hw 14 (7.4)(2): Integration by Partial Fractions (Homework)

Yinglai Wang
MA 162 Spring 2012, section 321, Spring 2012
Instructor: Jonathan Montano

Current Score : 20 / 20   **Due :** Thursday, February 16 2012 11:55 PM EST

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1. 2.85/2.85 points | Previous Answers   SCalcET7 7.4.021.

Evaluate the integral. (Remember to use ln |u| where appropriate.)

$$\int \frac{x^3 + 4}{x^2 + 4}\, dx$$

✔ + C

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2. 2.85/2.85 points | Previous Answers   SCalcET7 7.4.022.

Evaluate the integral. (Remember to use ln |u| where appropriate.)

$$\int \frac{ds}{s^2(s - 1)^2}$$

✔ + C

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3. 2.85/2.85 points | Previous Answers   SCalcET7 7.4.023.MI.

Evaluate the integral. (Remember to use ln |u| where appropriate.)

$$\int \frac{26}{(x - 1)(x^2 + 25)}\, dx$$

✔ + C

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4. 2.85/2.85 points | Previous Answers   SCalcET7 7.4.026.

Evaluate the integral.

$$\int \frac{8x^2 + 3x + 8}{(x^2 + 1)^2}\, dx$$

✔ $+ C$

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5. 2.85/2.85 points | Previous Answers   SCalcET7 7.4.035.

Evaluate the integral. (Remember to use ln |u| where appropriate.)

$$\int \frac{8dx}{x(x^2 + 4)^2}$$

✔ $+ C$

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6. 2.85/2.85 points | Previous Answers   SCalcET7 7.4.039.

Make a substitution to express the integrand as a rational function and then evaluate the integral. (Remember to use ln |u| where appropriate.)

$$\int \frac{\sqrt{x + 4}}{x}\, dx$$

✔ $+ C$

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7. 2.9/2.9 points | Previous Answers   SCalcET7 7.4.065.

Find the area of the region under the given curve from 1 to 2.

$$y = \frac{x^2 + 5}{3x - x^2}$$

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