Web**Assign**

Hw 13 (7.4): Integration by Partial Fractions (Homework)

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MA 162 Spring 2012, section 321, Spring 2012

Instructor: Jonathan Montano

Current Score : 20 / 20 **Due :** Tuesday, February 14 2012 11:55 PM EST

1. 3.33/3.33 points | Previous Answers

SCalcET7 7.4.002.

Write out the form of the partial fraction decomposition of the function (<u>See Example</u>). Do not determine the numerical values of the coefficients.

(a)
$$\frac{x}{x^2 + x - 6}$$

1

(b)
$$\frac{x^2}{x^2 + x + 3}$$

 \checkmark

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2. 3.33/3.33 points | Previous Answers

SCalcET7 7.4.003.

Write out the form of the partial fraction decomposition of the function (<u>See Example</u>). Do not determine the numerical values of the coefficients.

(a)
$$\frac{x^4 + 4}{x^5 + 5x^3}$$



(b)
$$\frac{6}{(x^2 - 16)^2}$$

1

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3. 3.33/3.33 points | Previous Answers

SCalcET7 7.4.012.

Evaluate the integral.

$$\int_0^1 \frac{x-8}{x^2-7x+10} \, dx$$



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4. 3.33/3.33 points | Previous Answers

SCalcET7 7.4.014.

Evaluate the integral. (Assume $a \neq b$. Remember to use $\ln |u|$ where appropriate.)

$$\int \frac{7}{(x+a)(x+b)} \, dx$$



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5. 3.33/3.33 points | Previous Answers

SCalcET7 7.4.015.

Evaluate the integral.

$$\int_{4}^{5} \frac{x^3 - 2x^2 - 4}{x^3 - 2x^2} \, dx$$



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6. 3.35/3.35 points | Previous Answers

SCalcET7 7.4.020.

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

$$\int \frac{3x^2 - 25x + 43}{(2x+1)(x-2)^2} \, dx$$



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