

WebAssign**Hw 12 (7.3)(2): Trigonometric Substitutions (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 7.3.016.

Evaluate the integral.

$$\int_{\sqrt{2}/2}^1 \frac{dx}{x^5 \sqrt{4x^2 - 1}}$$

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SCalcET7 7.3.018.

Evaluate the integral.

$$\int \frac{dx}{[(ax)^2 - b^2]^{3/2}}$$



+ C

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SCalcET7 7.3.019.

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

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



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4. 3.33/3.33 points | [Previous Answers](#)

SCalcET7 7.3.023.

Evaluate the integral.

$$\int \sqrt{8 + 2x - x^2} \, dx$$


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5. 3.33/3.33 points | [Previous Answers](#)

SCalcET7 7.3.026.

Evaluate the integral.

$$\int \frac{x^2}{(3 + 4x - 4x^2)^{3/2}} \, dx$$


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6. 3.35/3.35 points | [Previous Answers](#)

SCalcET7 7.3.027.

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

$$\int \sqrt{x^2 + 10x} \, dx$$

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