WebAssign
Hw 10 (7.2): Trigonometric Integrals (Homework)

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

Current Score : 20 / 20 **Due :** Thursday, February 2 2012 11:55 PM EST

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1. 2.5/2.5 points | Previous Answers SCalcET7 7.2.001.MI.

Evaluate the integral.

$$\int 9 \sin^2 x \cos^3 x \, dx$$

✔ $+ C$

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2. 2.5/2.5 points | Previous Answers SCalcET7 7.2.007.

Evaluate the integral.

$$\int_0^{\pi/2} 7 \cos^2\theta \, d\theta$$

✔

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3. 2.5/2.5 points | Previous Answers SCalcET7 7.2.010.

Evaluate the integral.

$$\int_0^{\pi} 3 \sin^2 t \cos^4 t \, dt$$

✔

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4. 2.5/2.5 points | Previous Answers SCalcET7 7.2.011.

Evaluate the integral.

$$\int_0^{\pi/2} 9 \sin^2 x \cos^2 x \, dx$$

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5. 2.5/2.5 points | Previous Answers SCalcET7 7.2.017.

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

$$\int 3 \cos^2 x \tan^3 x \, dx$$

$+ C$

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6. 2.5/2.5 points | Previous Answers SCalcET7 7.2.024.

Evaluate the integral.

$$\int \left(\tan^2 x + \tan^4 x\right) dx$$

$+ C$

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7. 2.5/2.5 points | Previous Answers SCalcET7 7.2.029.

Evaluate the integral.

$$\int 5 \tan^3 x \sec x \, dx$$

$+ C$

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8. 2.5/2.5 points | Previous Answers SCalcET7 7.2.061.

Find the volume V obtained by rotating the region bounded by the given curves about the specified axis.

$y = \sin x,\ y = 0,\ \frac{\pi}{2} \le x \le \pi$; about the $x-$axis

$V =$ ✔

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