

## WebAssign

## MAT 10 Exam 3 Group Review part 1 (Homework)

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MAT 10 - Mulari, Spring 2014  
Instructor: Jeffrey Mulari

Current Score : 1 / 13      Due : Monday, May 12 2014 11:59 PM PDT

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1. 1/1 points | [Previous Answers](#)

SPreCalc6 7.4.046.

Solve the given equation. (Enter your answers as a comma-separated list. Let  $k$  be any integer. Round terms to three decimal places where appropriate. If there is no solution, enter NO SOLUTION.)

$$\sin^2 \theta - 5 \sin \theta - 6 = 0$$

$\theta =$



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2. -1 points

SPreCalc6 7.4.050.

Solve the given equation. (Enter your answers as a comma-separated list. Let  $k$  be any integer. Round terms to three decimal places where appropriate. If there is no solution, enter NO SOLUTION.)

$$3 \tan^3 \theta = \tan \theta$$

$\theta =$

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3. -2 points

SPreCalc6 7.5.024.

An equation is given. (Enter your answers as a comma-separated list. Round terms to three decimal places where appropriate. If there is no solution, enter NO SOLUTION.)

$$\tan \frac{\theta}{5} + \sqrt{3} = 0$$

(a) Find all solutions of the equation.

$\theta =$

(b) Find the solutions in the interval  $[0, 2\pi)$ .

$\theta =$

4. -/2 points

SPreCalc6 7.5.034.

An equation is given. (Enter your answers as a comma-separated list. Round terms to three decimal places where appropriate. If there is no solution, enter NO SOLUTION.)

$$\sec \theta \tan \theta - \cos \theta \cot \theta = \sin \theta$$

(a) Find all solutions of the equation.

$$\theta =$$

(b) Find the solutions in the interval  $[0, 2\pi)$ .

$$\theta =$$

5. -/2 points

SPreCalc6 7.5.042.

Use an Addition or Subtraction Formula to simplify the equation.

$$\sin 3\theta \cos \theta - \cos 3\theta \sin \theta = \frac{1}{2}$$

Find all solutions in the interval  $[0, 2\pi)$ . (Enter your answers as a comma-separated list.)

$$\theta =$$

6. -/1 points

SPreCalc6 7.5.048.

Use a Double- or Half-Angle Formula to solve the equation in the interval  $[0, 2\pi)$ . (Enter your answers as a comma-separated list. Round your answers to three decimal places where appropriate.)

$$2 \sin^2 \theta = 2 + \cos 2\theta$$

$$\theta =$$

7. -/1 points

SPreCalc6 7.5.056.

Solve the equation by first using a Sum-to-Product Formula. (Enter your answers as a comma-separated list. Let  $k$  be any integer. Round terms to three decimal places where appropriate.)

$$\sin 6\theta - \sin 4\theta = \cos 5\theta$$

$$\theta =$$

8. -/1 points

SPreCalc6 10.7.028.

Find the partial fraction decomposition of the rational function.

$$\frac{2x^2 + 5x - 10}{(2x + 3)(x^2 - 4x + 4)}$$

9. -/1 points

SPreCalc6 10.7.041.

Find the partial fraction decomposition of the rational function.

$$\frac{5x^4 + 2x^3 + 7x^2 - 3x + 5}{x(x^2 + 1)^2}$$

10. -/1 points

SPreCalc6 10.7.043.

Find the partial fraction decomposition of the rational function.

$$\frac{x^5 - 4x^4 + x^3 + 2x + 13}{x^3 - 4x^2 + x - 4}$$