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← MAT2550, section ONL6FA_ONL6F, Summer 2 2021

Week 8 Quiz Math 2550 (Quiz)

 INSTRUCTOR

Bradford Thompson
South College

Current Score

QUESTION

1

2

3

4

5

6

7

8

9

10

POINTS

-/10

-/10

-/10

-/10

-/10

-/10

-/10

-/10

-/10

-/10

TOTAL SCORE

-/100

0.0%

Due Date

TUE, SEP 14, 2021
11:59 PM EDT



Request Extension

Assignment Submission & Scoring

Assignment Submission

For this assignment, you submit answers by question parts. The number of submissions remaining for each question part only changes if you submit or change the answer.

Assignment Scoring

Your last submission is used for your score.

1. [-/10 Points]

DETAILS

LARPCALC10 5.4.008.

MY NOTES

ASK YOUR TEACHER

Find the exact value of each expression.

(a) $\sin\left(\frac{43\pi}{6} - \frac{37\pi}{3}\right)$

(b) $\sin\left(\frac{43\pi}{6}\right) - \sin\left(\frac{37\pi}{3}\right)$

2. [-/10 Points]

DETAILS

LARPCALC10 5.5.017.

MY NOTES

ASK YOUR TEACHER

Use a double-angle formula to rewrite the expression.

$$8 \cos^2 x - 4$$

3. [-/10 Points]

DETAILS

LARPCALC10 5.4.019.

MY NOTES

ASK YOUR TEACHER

Find the exact values of the sine, cosine, and tangent of the angle.

$$\frac{13\pi}{12}$$

$$\sin\left(\frac{13\pi}{12}\right) =$$

$$\cos\left(\frac{13\pi}{12}\right) =$$

$$\tan\left(\frac{13\pi}{12}\right) =$$

4. [-/10 Points]

DETAILS

LARPCALC10 5.4.005.

MY NOTES

ASK YOUR TEACHER

Fill in the blank.

$$\cos(u - v) =$$

5. [-/10 Points]

DETAILS

LARPCALC10 5.5.022.

MY NOTES

ASK YOUR TEACHER

Use the given conditions to find the exact values of $\sin(2u)$, $\cos(2u)$, and $\tan(2u)$ using the double-angle formulas.

$$\cos(u) = -\frac{12}{13}, \quad \pi/2 < u < \pi$$

 $\sin(2u) =$ $\cos(2u) =$ $\tan(2u) =$

6. [-/10 Points]

DETAILS

LARPCALC10 5.4.013.

MY NOTES

ASK YOUR TEACHER

Find the exact values of the sine, cosine, and tangent of the angle.

$$\frac{17\pi}{12} = \frac{17\pi}{4} - \frac{17\pi}{6}$$

 $\sin\left(\frac{17\pi}{12}\right) =$ $\cos\left(\frac{17\pi}{12}\right) =$ $\tan\left(\frac{17\pi}{12}\right) =$

7. [-/10 Points]

DETAILS

LARPCALC10 5.5.009.

MY NOTES

ASK YOUR TEACHER

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

$$\cos(2x) - \cos(x) = 0$$

 $x =$

8. [-/10 Points]

DETAILS

LARPCALC10 5.5.002.

MY NOTES

ASK YOUR TEACHER

Fill in the blank to complete the trigonometric formula. (Select all that apply.)

$$\cos 2u = \underline{\hspace{2cm}}$$

☐ $1 - 2 \sin^2 u$

☐ $\cos^2 u - \sin^2 u$

☐ $2 \sin^2 u - 1$

☐ $2 \sin u \cos u$

☐ $2 \cos^2 u - 1$

9. [-/10 Points]

DETAILS

LARPCALC10 5.5.012.

MY NOTES

ASK YOUR TEACHER

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

$$(\sin(2x) + \cos(2x))^2 = 1$$

 $x =$

10. [-/10 Points]

DETAILS

LARPCALC10 5.4.015.

MY NOTES

ASK YOUR TEACHER

Find the exact values of the sine, cosine, and tangent of the angle.

$$105^\circ = 60^\circ + 45^\circ$$

 $\sin(105^\circ) =$ $\cos(105^\circ) =$ $\tan(105^\circ) =$

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