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← MAT2550, section ONL6FA_ONL6F, Summer 2 2021

Week 8 Math 2550 (Homework)

 **INSTRUCTOR**
Bradford Thompson
 South College

Current Score

QUESTION	1	2	3	4	5	6	7	8	9	10	11	12	13
POINTS	-/6.25	-/6.25	-/6.25	-/6.25	-/6.25	-/6.25	-/6.25	-/6.25	-/6.25	-/6.25	-/6.25	-/6.25	-/6.25

TOTAL SCORE

-/100	0.0%
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Due Date

TUE, SEP 14, 2021
 11:59 PM EDT

[Request Extension](#)

Assignment Submission & Scoring

Assignment Submission

For this assignment, you submit answers by questions. You are required to use a new randomization after every 3 question submissions.

Assignment Scoring

Your best submission for each question part is used for your score.

1. [-/6.25 Points]

DETAILS

LARPCALC10 5.4.002. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

Fill in the blank.

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

Need Help?

Read It

2. [-/6.25 Points]

DETAILS

LARPCALC10 5.4.006. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

Fill in the blank.

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

Need Help?

Read It

3. [-/6.25 Points]

DETAILS

LARPCALC10 5.4.007. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

Find the exact value of each expression.

(a) $\cos\left(\frac{\pi}{4} + \frac{\pi}{3}\right)$

(b) $\cos\frac{\pi}{4} + \cos\frac{\pi}{3}$

Need Help?

Read It

4. [-/6.25 Points]

DETAILS

LARPCALC10 5.4.009. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

Find the exact value of each expression.

(a) $\sin(135^\circ - 60^\circ)$

(b) $\sin 135^\circ - \cos 60^\circ$

Need Help?

Read It

5. [-/6.25 Points]

DETAILS

LARPCALC10 5.4.011. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

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

$$\frac{11\pi}{12} = \frac{3\pi}{4} + \frac{\pi}{6}$$

$\sin\left(\frac{11\pi}{12}\right) =$

$\cos\left(\frac{11\pi}{12}\right) =$

$\tan\left(\frac{11\pi}{12}\right) =$

Need Help?

Read It

6. [-/6.25 Points]

DETAILS

LARPCALC10 5.4.013. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

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

$$\frac{17\pi}{12} = \frac{9\pi}{4} - \frac{5\pi}{6}$$

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

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

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

Need Help?

Read It

7. [-/6.25 Points]

DETAILS

LARPCALC10 5.4.015. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

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

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

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

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

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

Need Help?

Read It

8. [-/6.25 Points]

DETAILS

LARPCALC10 5.4.020. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

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

$$\frac{19\pi}{12}$$

$$\sin\left(\frac{19\pi}{12}\right) =$$

$$\cos\left(\frac{19\pi}{12}\right) =$$

$$\tan\left(\frac{19\pi}{12}\right) =$$

Need Help?

Read It

9. [-/6.25 Points]

DETAILS

LARPCALC10 5.4.024. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

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

$$15^\circ$$

$$\sin(15^\circ) =$$

$$\cos(15^\circ) =$$

$$\tan(15^\circ) =$$

Need Help?

Read It

Watch It

10. [-/6.25 Points]

DETAILS

LARPCALC10 5.5.007. 0/15 Submissions Used

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.)

$$\sin(2x) + \sin(x) = 0$$

 $x =$

Need Help?

Read It

11. [-/6.25 Points]

DETAILS

LARPCALC10 5.5.008. 0/15 Submissions Used

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.)

$$8 \sin(2x) \sin(x) = 8 \cos(x)$$

 $x =$

Need Help?

Read It

Watch It

12. [-/6.25 Points]

DETAILS

LARPCALC10 5.5.015. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

Use a double-angle formula to rewrite the expression.

$$10 \sin x \cos x$$

Need Help?

Read It

13. [-/6.25 Points]

DETAILS

LARPCALC10 5.5.016.MI. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

Use a double-angle formula to rewrite the expression.

$$3 \sin x \cos x$$

Need Help?

Read It

Watch It

Master It

14. [-/6.25 Points]

DETAILS

LARPCALC10 5.5.018. 0/15 Submissions Used

MY NOTES

ASK YOUR TEACHER

Use a double-angle formula to rewrite the expression.

$$\frac{1}{2} \cos^2 x - \frac{1}{4}$$

Need Help?

Read It

Watch It

15. [-/6.25 Points]

DETAILS

LARPCALC10 5.5.021. 0/15 Submissions Used

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.

$$\sin(u) = -3/5, \quad 3\pi/2 < u < 2\pi$$

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

Need Help?

Read It

16. [-/6.25 Points]

DETAILS

LARPCALC10 5.5.024. 0/15 Submissions Used

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.

$$\sec(u) = -2, \quad \pi/2 < u < \pi$$

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

Need Help?

Read It

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