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← MAT2550, section ONL6FA_ONL6F, Summer 2 2021

Week 6 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, AUG 31, 2021

11:59 PM EDT



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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]

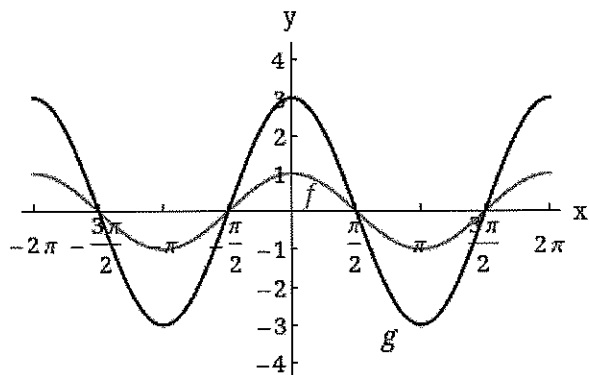
DETAILS

LARPCALC10 4.5.021.

MY NOTES

ASK YOUR TEACHER

Describe the relationship between the graphs of f and g . Consider amplitude, period, and shifts.



- ☐ The period of g is one-third the period of f .
- ☐ The amplitude of g is 3 times the amplitude of f .
- ☐ The amplitude of g is one-third the amplitude of f .
- ☐ The period of g is 3 times the period of f .
- ☐ The graphs of f and g differ only in their phase shift.

2. [-/10 Points]

DETAILS

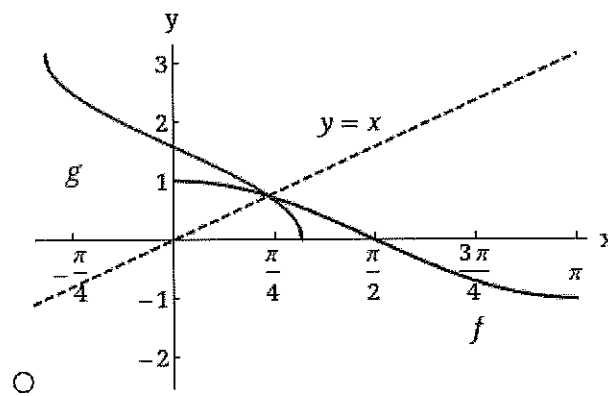
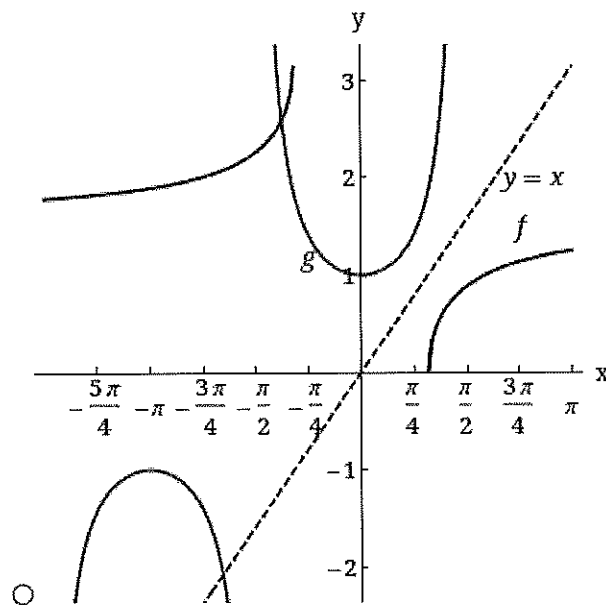
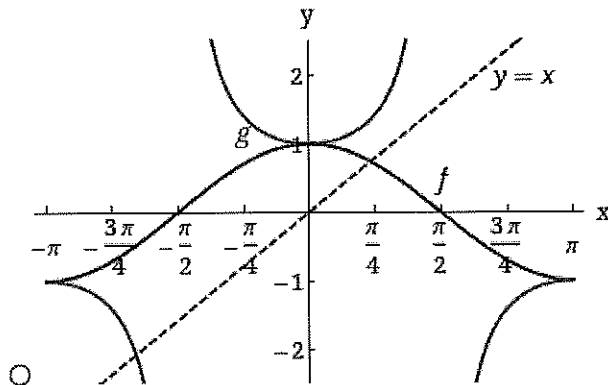
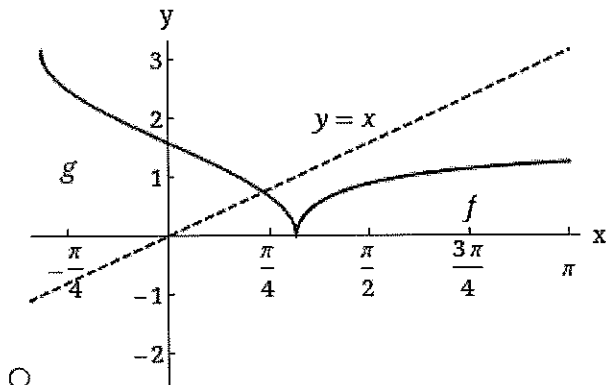
LARPCALC10 4.7.019.

MY NOTES

ASK YOUR TEACHER

Use a graphing utility to graph f , g , and $y = x$ in the same viewing window. (Be sure to restrict the domain of f properly.)

$$f(x) = \cos x, \quad g(x) = \arccos x$$



Is g the inverse function of f ?

☐ Yes

☐ No

3. [-/10 Points]

DETAILS

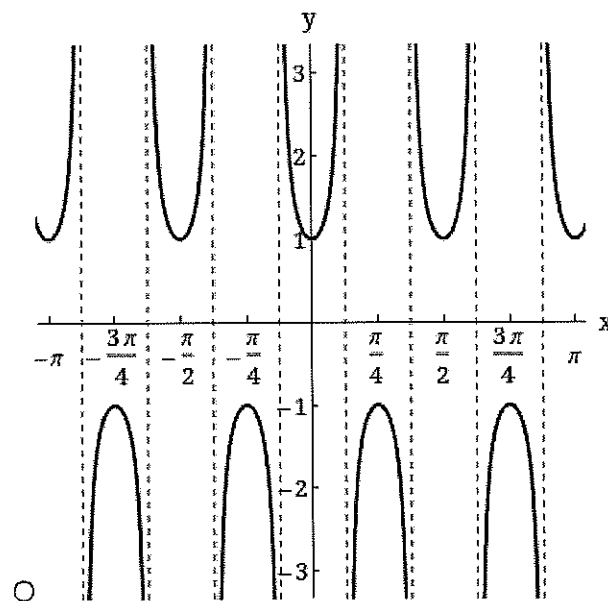
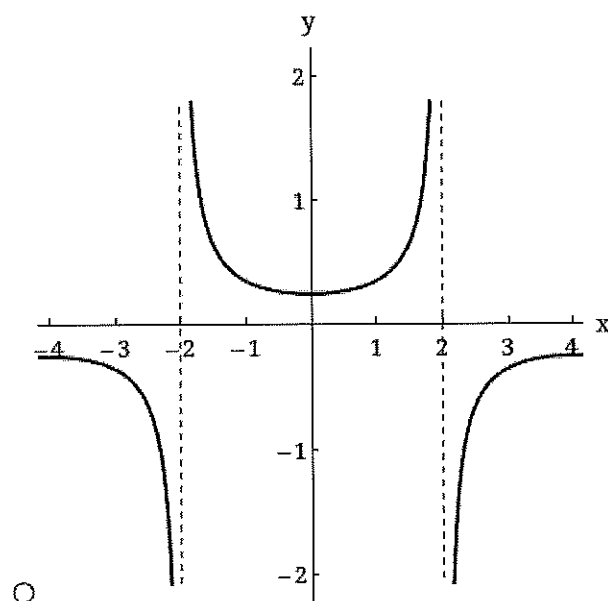
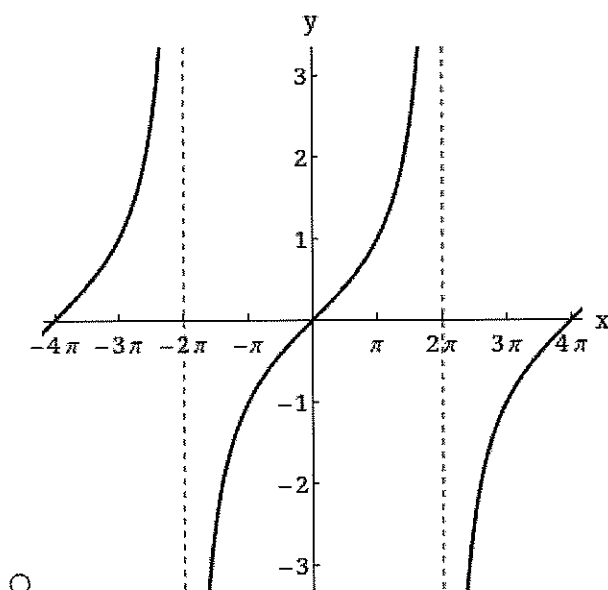
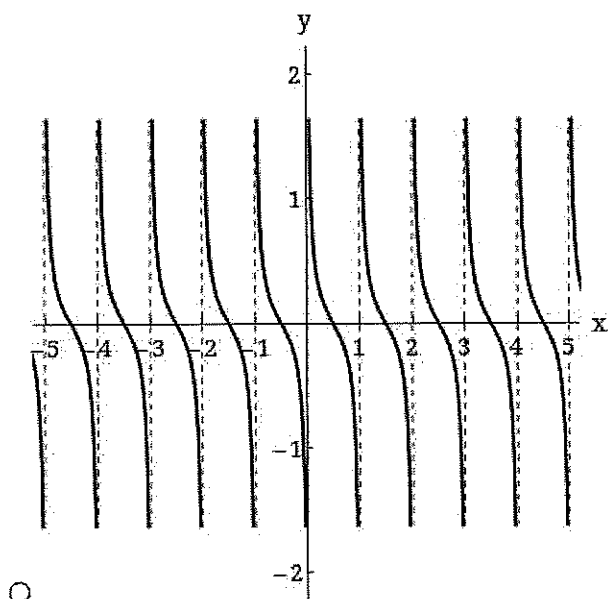
LARPCALC10 4.6.011.

MY NOTES

ASK YOUR TEACHER

Match the function with its graph.

$$y = \frac{1}{4} \cot \pi x$$



State the period of the function.

4. [-/10 Points]

DETAILS

LARPCALC10 4.5.009.

MY NOTES

ASK YOUR TEACHER

Find the period and amplitude.

$$y = -\frac{1}{3} \sin\left(\frac{3x}{2}\right)$$

period

amplitude

5. [-/10 Points]

DETAILS

LARPCALC10 4.7.027.

MY NOTES

ASK YOUR TEACHER

Use a calculator to approximate the value of the expression, if possible. Round your result to two decimal places. (Enter your answer in radians. If not possible, enter IMPOSSIBLE.)

$$\sin^{-1}(1.78)$$

6. [-/10 Points]

DETAILS

LARPCALC10 4.5.016.

MY NOTES

ASK YOUR TEACHER

Describe the relationship between the graphs of f and g . Consider amplitude, period, and shifts.

$$f(x) = \sin 2x$$

$$g(x) = \sin(-2x)$$

- ☐ The graph of g is a horizontal shift of the graph of f 2 units to the right.
- ☐ The graph of g is a vertical shift of the graph of f 2 units upward.
- ☐ The graph of g is a horizontal shift of the graph of f 2 units to the left.
- ☐ The graph of g is a vertical shift of the graph of f 2 units downward.
- ☐ The graph of g is a reflection of the graph of f in the y -axis.

7. [-/10 Points]

DETAILS

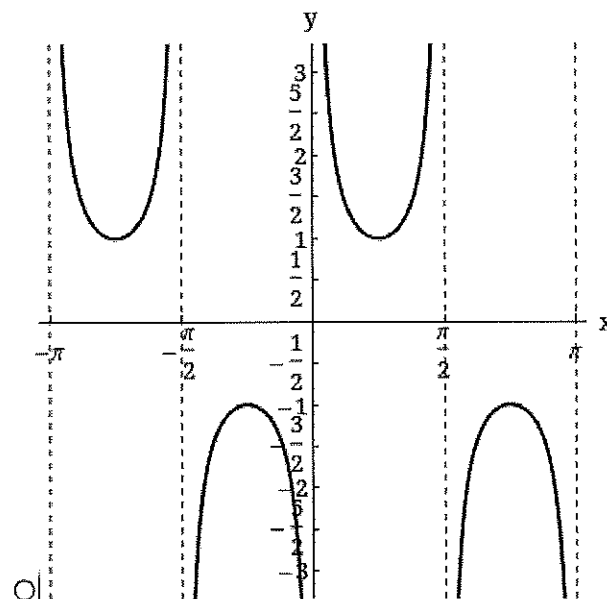
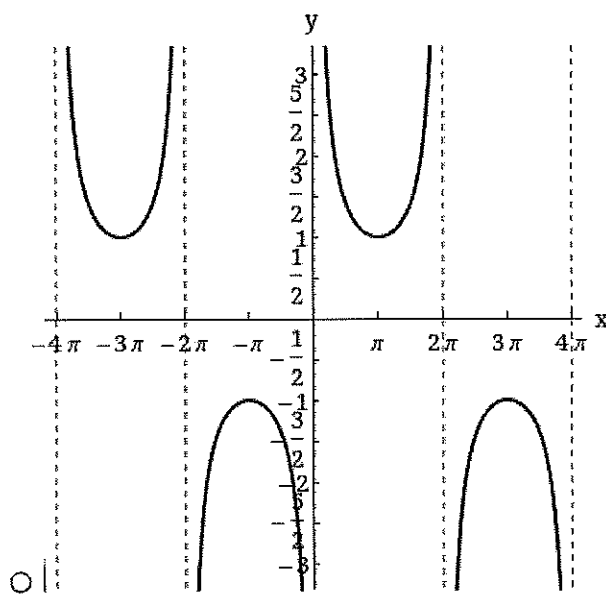
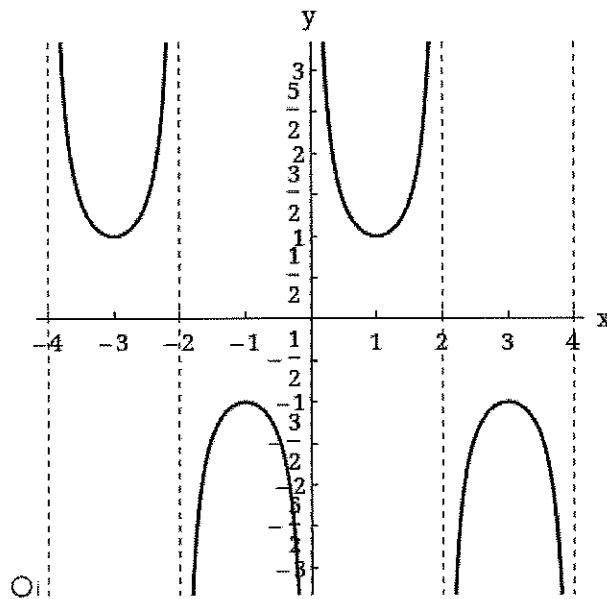
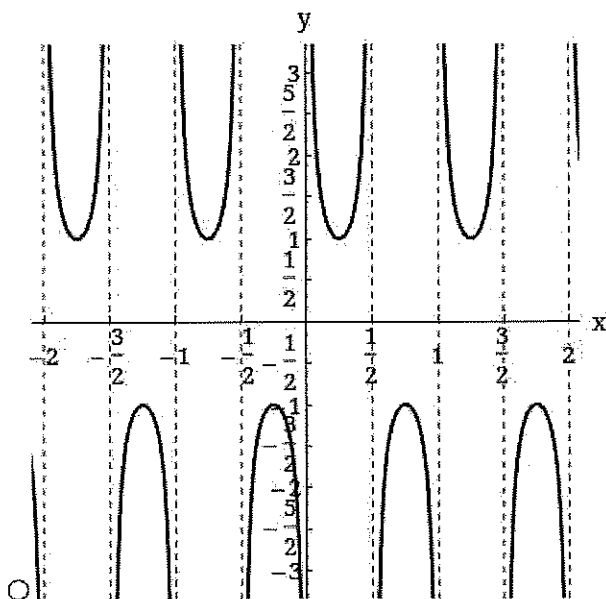
LARPCALC10 4.6.025.

MY NOTES

ASK YOUR TEACHER

Sketch the graph of the function. (Include two full periods.)

$$y = \csc \frac{x}{2}$$



8. [-/10 Points]

DETAILS

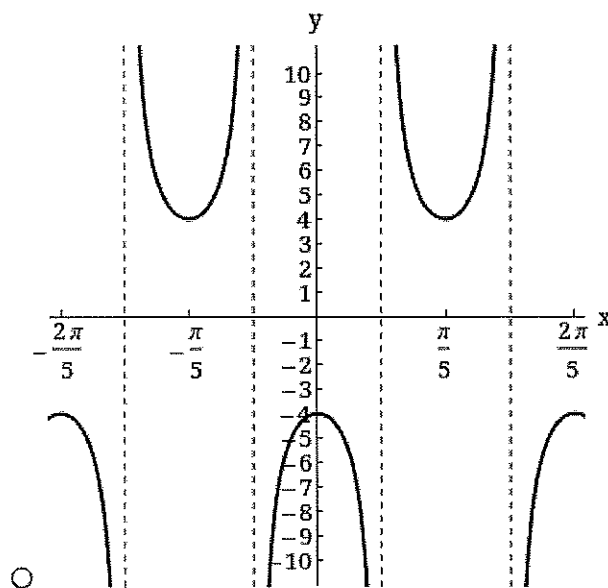
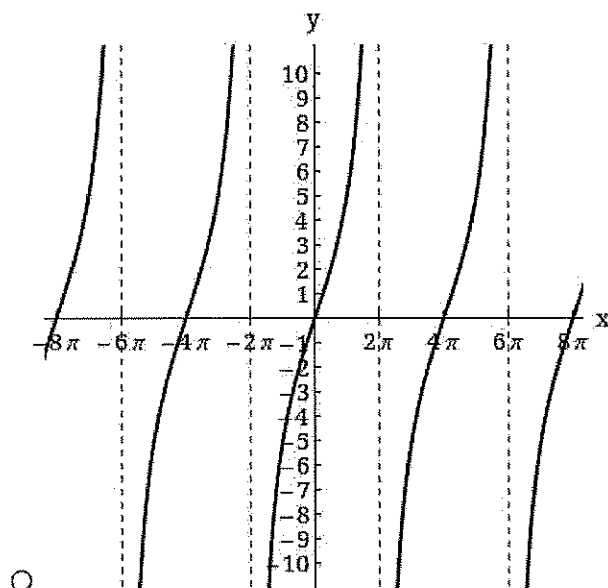
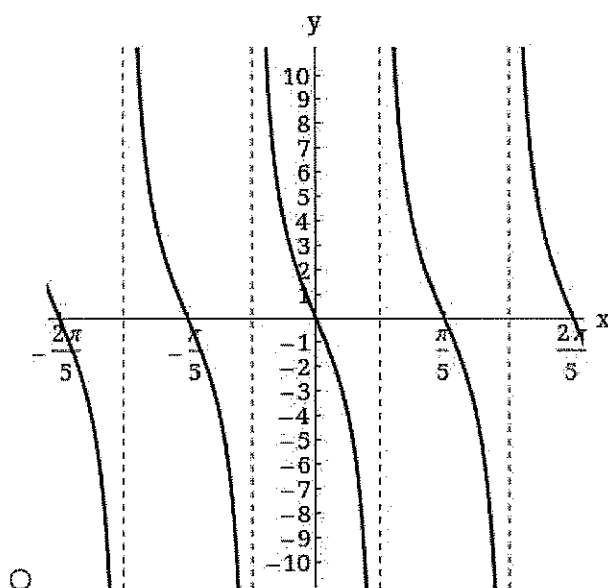
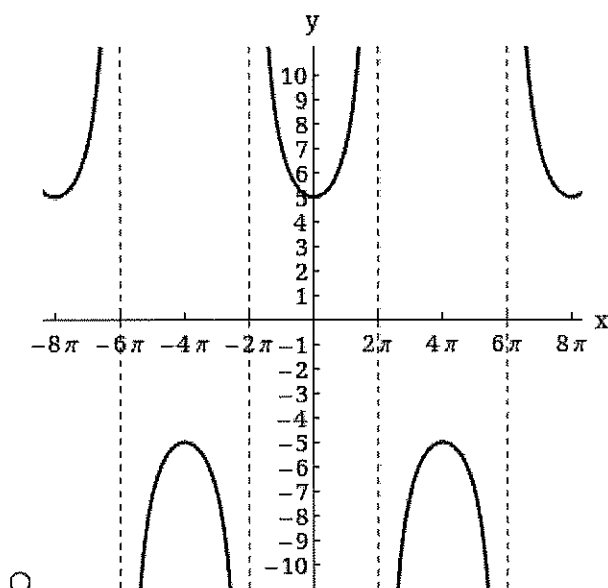
LARPCALC10 4.6.019.

MY NOTES

ASK YOUR TEACHER

Sketch the graph of the function. (Include two full periods.)

$$y = -4 \tan 5x$$



9. [-/10 Points]

DETAILS

LARPCALC10 4.7.013.

MY NOTES

ASK YOUR TEACHER

Find the exact value of the expression, if possible. (If not possible, enter IMPOSSIBLE.)

$$\tan^{-1}(-\sqrt{3})$$

10. [-/10 Points]

DETAILS

LARPCALC10 4.5.014.

MY NOTES

ASK YOUR TEACHER

Describe the relationship between the graphs of f and g . Consider amplitude, period, and shifts.

$$f(x) = \sin x$$

$$g(x) = 9 \sin x$$

- ☐ The period of g is one-ninth the period of f .
- ☐ The period of g is 9 times the period of f .
- ☐ The amplitude of g is 9 times the amplitude of f .
- ☐ The amplitude of g is one-ninth the amplitude of f .
- ☐ The graph of g is a vertical shift of the graph of f 9 units upward.

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