



EN njorogec@my.south.edu (Sign out)

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← MAT2550, section ONL6FA_ONL6F, Summer 2 2021

Week 1 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	-/10
	✓									
TOTAL SCORE										10/100 10.0%

Due Date Past Due

FRI, JUL 30, 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.

The due date for this assignment has passed.

Your work can be viewed below, but no changes can be made.

Important! Before you view the answer key, decide whether or not you plan to request an extension. Your Instructor may not grant you an extension if you have viewed the answer key. Automatic extensions are not granted if you have viewed the answer key.

 Request Extension View Key

1. [10/10 Points]

DETAILS

PREVIOUS ANSWERS

LARPCALC10 1.4.021.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

Find the function value, if possible. (If an answer is undefined, enter UNDEFINED.)

$$g(t) = 5t^2 - 4t + 6$$

(a) $g(2)$

\$\$18

(b) $g(t - 2)$

\$\$5t^2 - 24t + 34

(c) $g(t) - g(2)$

\$\$5t^2 - 4t - 12



Need Help?

Read It

2. [-/10 Points]

DETAILS

LARPCALC10 1.9.015.MI.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

Verify that f and g are inverse functions algebraically.

$$f(x) = \frac{x-4}{7}, \quad g(x) = 7x + 4$$

$$f(g(x)) = f\left(\frac{\text{(No Response)}}{\text{(No Response)}}\right)$$

$$= \text{(No Response)}$$

$$g(f(x)) = g\left(\frac{\text{(No Response)}}{\text{(No Response)}}\right)$$

$$= \text{(No Response)}$$

Need Help?

Read it

Watch it

Master it

3. [-/10 Points]

DETAILS

LARPCALC10 1.7.008.

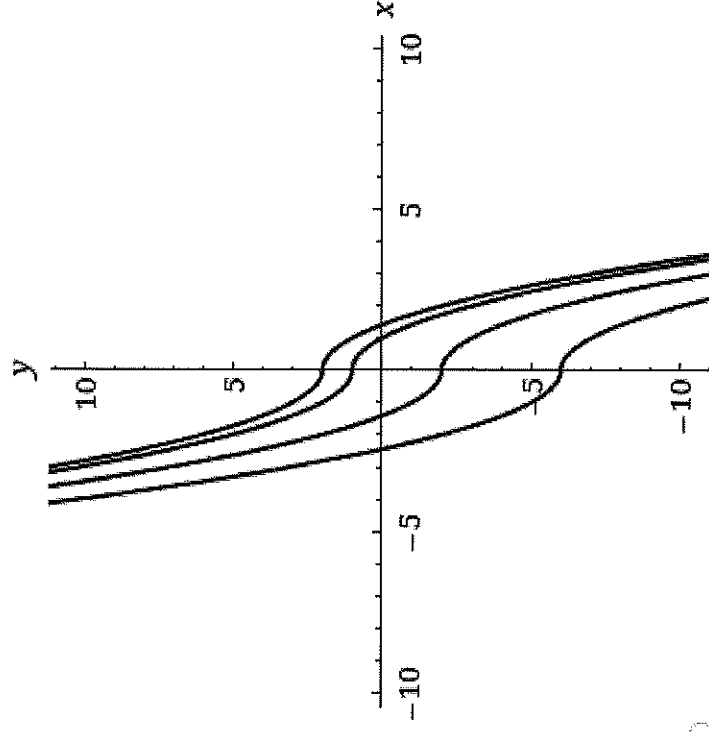
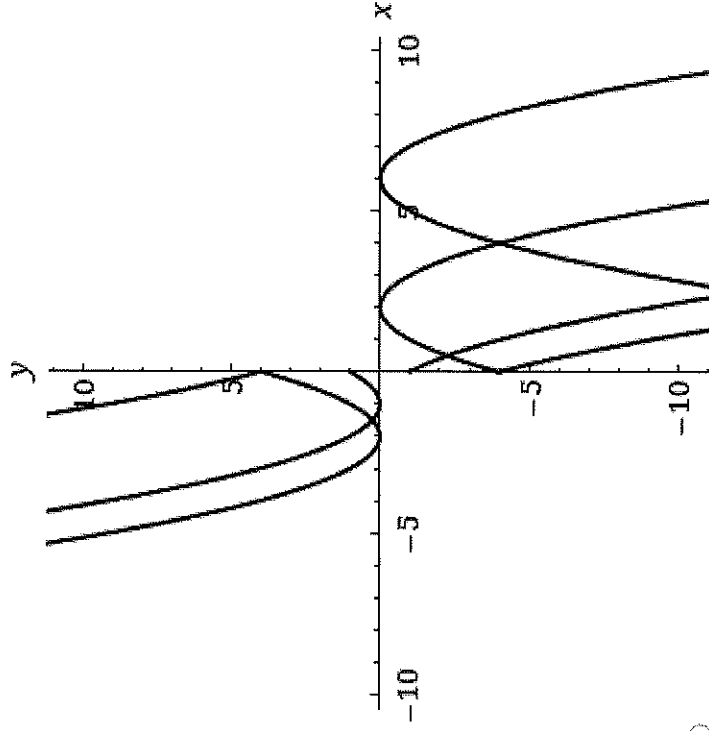
MY NOTES

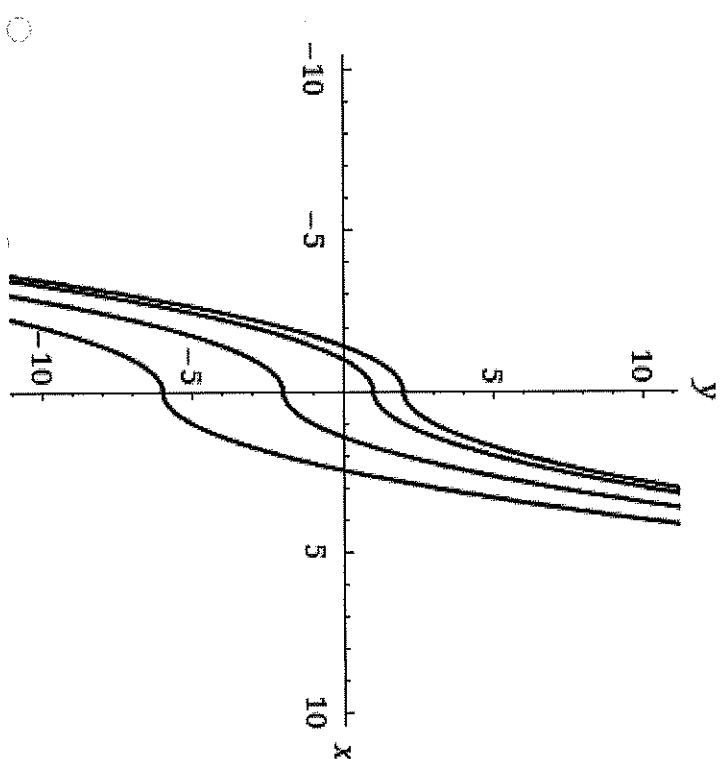
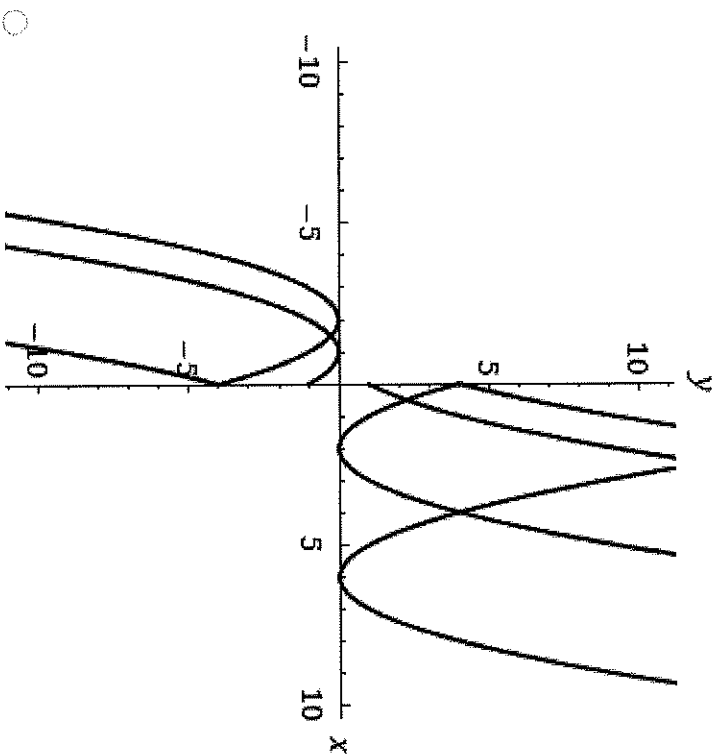
ASK YOUR TEACHER

PRACTICE ANOTHER

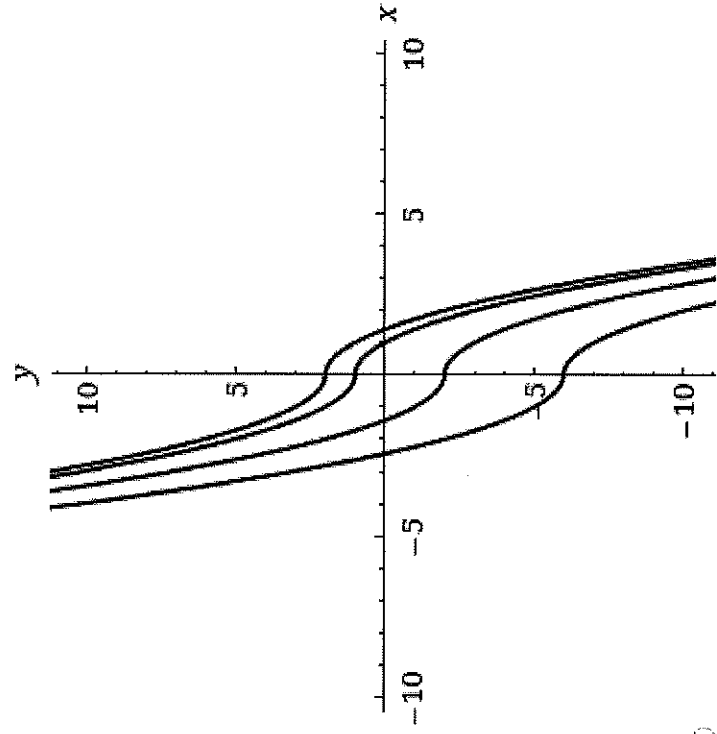
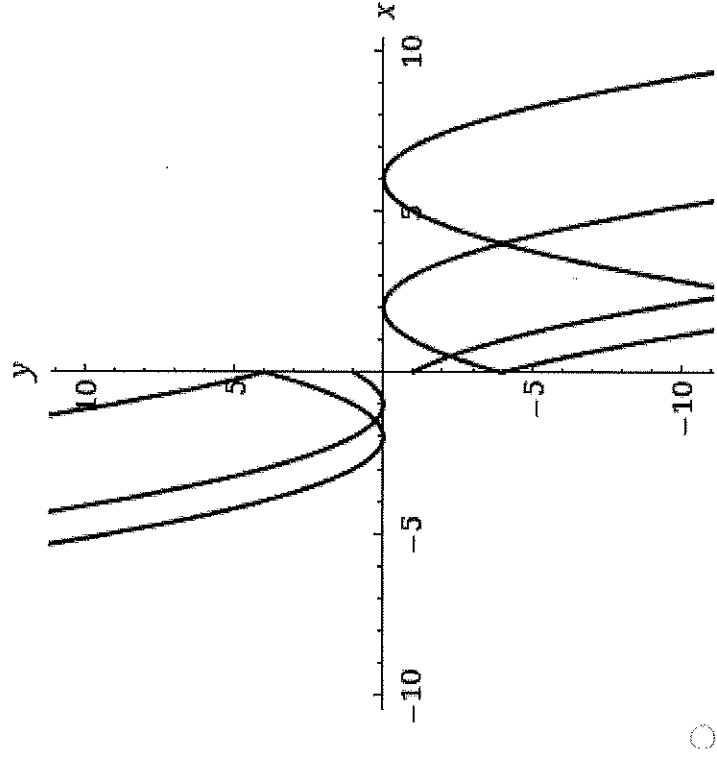
For each function, sketch the graphs of the function when $c = -6, -2, 1,$ and 2 on the same set of coordinate axes.

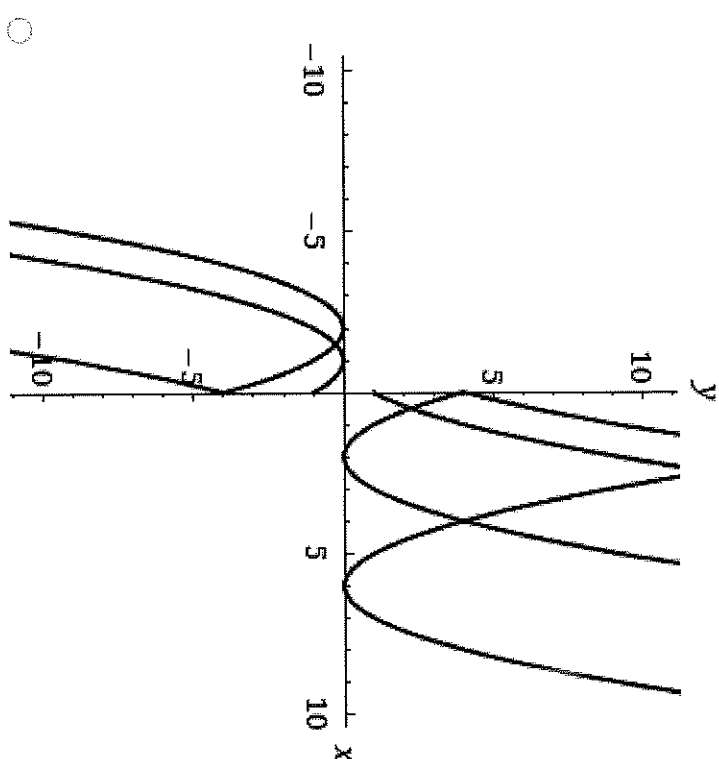
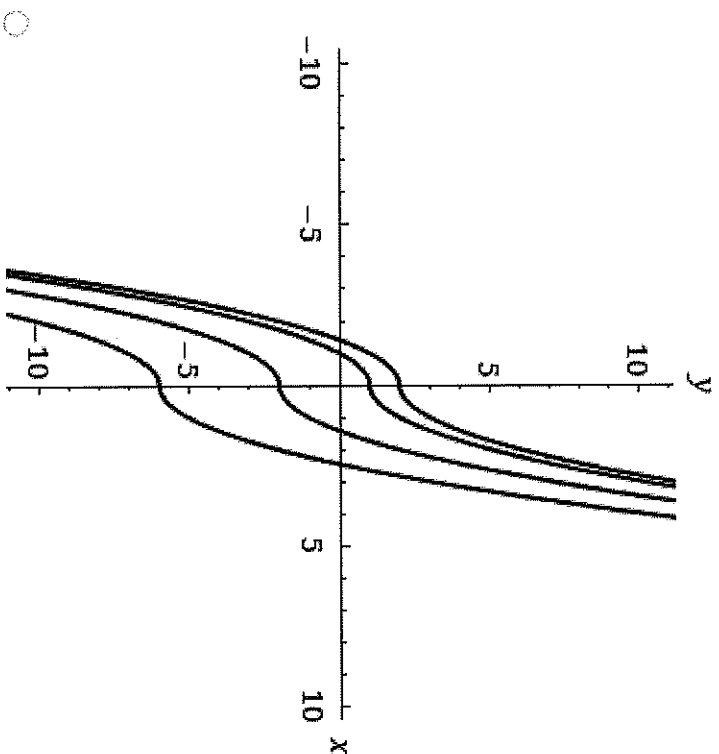
$$(a) \quad f(x) = \begin{cases} x^2 + c, & x < 0 \\ -x^2 + c, & x \geq 0 \end{cases}$$





(b) $f(x) = \begin{cases} (x + c)^2, & x < 0 \\ -(x + c)^2, & x \geq 0 \end{cases}$





☐

☐

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4. [-/10 Points]

DETAILS

LARPCALC10 1.4.012.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

Determine whether the equation represents y as a function of x .

$$x^2 - y = 81$$

☐ Yes

☐ No

Need Help?

Read It

5. [-/10 Points]

DETAILS

LARPCALC10 1.9.034.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

Does the function have an inverse function?

x	-5	-4	-3	1	2	3
$f(x)$	6	5	3	-1	-7	-8

☐ Yes

☐ No

Need Help?

Read It

6. [-/10 Points]

DETAILS

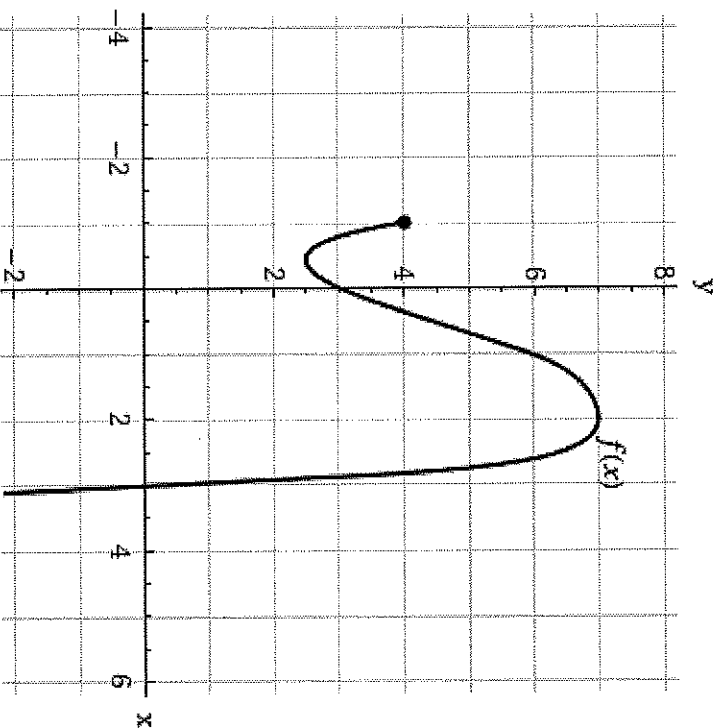
LARPCALC10 1.5.008.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

Use the graph of the function to find the domain and range of f . (Enter your answer using interval notation.)



domain

range

Use the graph to find the indicated function values.

(a) $f(-1) =$

(b) $f(1) =$

(c) $f(2) =$

(d) $f(3) =$

Need Help?

Read It

Watch It

7. [-/10 Points] LARPCALC10 1.8.006.MI.

- DETAILS
- ASK YOUR TEACHER
- MY NOTES
- PRACTICE ANOTHER

Find the following.

- $f(x) = 5x - 9, \quad g(x) = 4 - x$
- (a) $(f + g)(x) =$
- (b) $(f - g)(x) =$
- (c) $(fg)(x) =$
- (d) $(f/g)(x) =$

What is the domain of f/g ? (Enter your answer using interval notation.)

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8. [-/10 Points]

DETAILS

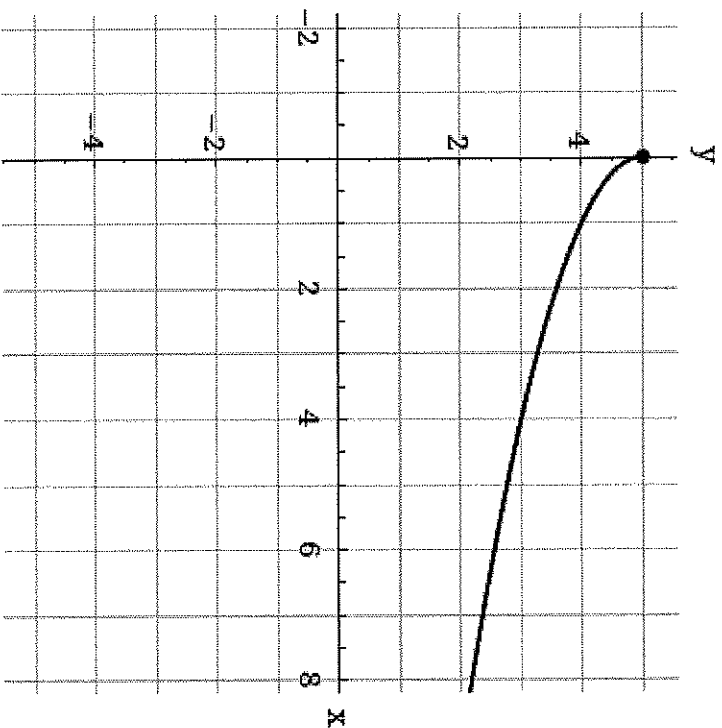
LARPCALC10 1.7.019.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

Consider the following graph.



Identify the parent function.

$y =$

Identify the transformation represented by the graph. (Select all that apply.)

- ☐ vertical stretch
- ☐ vertical shrink
- ☐ reflection in the x-axis
- ☐ vertical shift of 5 units upward

☐ horizontal shift of 5 units to the left

Write an equation for the function represented by the graph.

$y =$

Need Help?

9. [-/10 Points]

DETAILS

LARPCALC10 1.8.021.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

Evaluate the function for $f(x) = x + 3$ and $g(x) = x^2 - 2$.

$(f \circ g)(2)$

$(f \circ g)(2) =$

Need Help?

10. [-/10 Points]

DETAILS

LARPCALC10 1.5.020.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

Find the zeros of the function algebraically. (Enter your answers as a comma-separated list.)

$$f(x) = \frac{x^2 - 10x + 21}{5x}$$

$x =$

Need Help?

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