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← MAT2550, section ONL6FA_ONL6F, Summer 2 2021

Week 2 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 3, 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 2.1.014.

MY NOTES

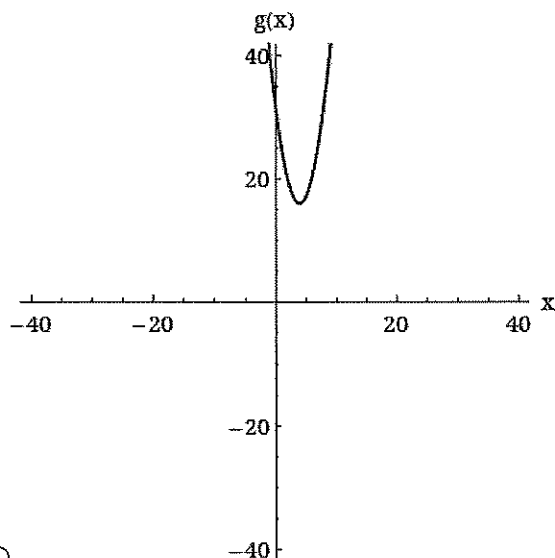
ASK YOUR TEACHER

Write the quadratic function in standard form.

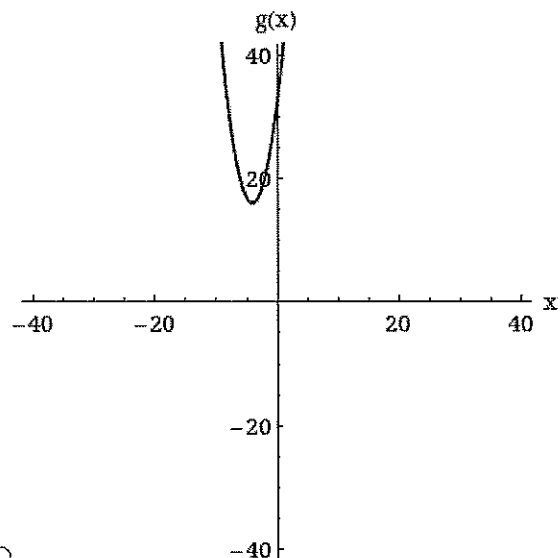
$$g(x) = x^2 - 8x$$

 $g(x) =$

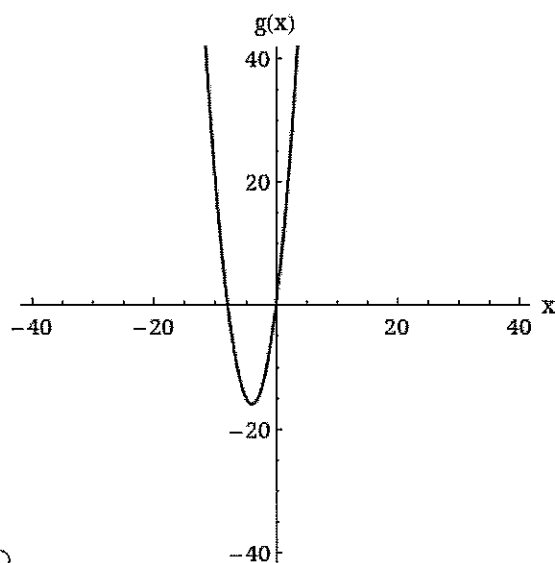
Sketch its graph.



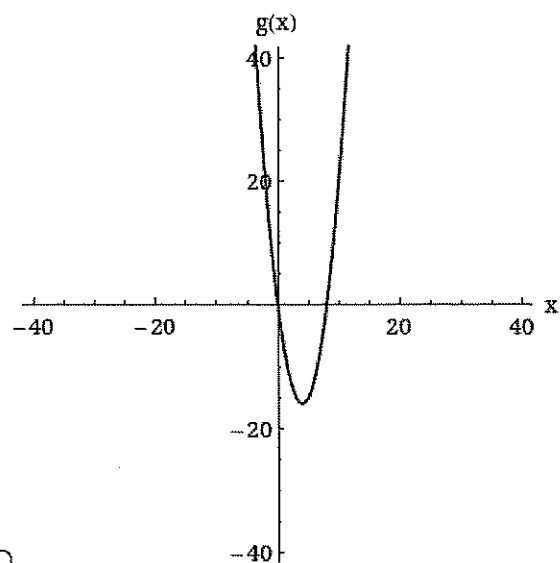
○



○



○



○

Identify the vertex, axis of symmetry, and x-intercept(s). (If an answer does not exist, enter DNE.)

vertex

 $(x, g(x)) = ($
 $)$

axis of symmetry

x-intercept

$(x, g(x)) = ($
 $)$

(smaller x-value)

x-intercept

$(x, g(x)) = ($
 $)$

(larger x-value)

2. [-/10 Points]

DETAILS

LARPCALC10 2.4.019.

MY NOTES

ASK YOUR TEACHER

Write the complex number in standard form.

$$-2i + i^2$$

3. [-/10 Points]

DETAILS

LARPCALC10 2.2.022.MI.

MY NOTES

ASK YOUR TEACHER

Describe the left-hand and right-hand behavior of the graph of the polynomial function. (Select all that apply.)

$$h(x) = 3 - x^6$$

- ☐ The graph rises to the right.
- ☐ The graph falls to the right.
- ☐ The graph rises to the left.
- ☐ The graph falls to the left.

4. [-/10 Points]

DETAILS

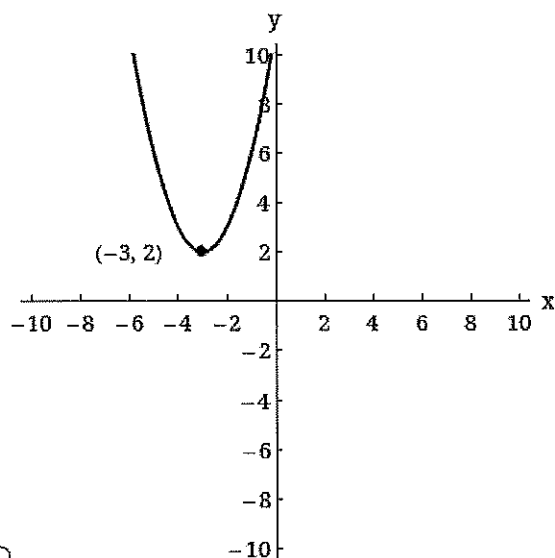
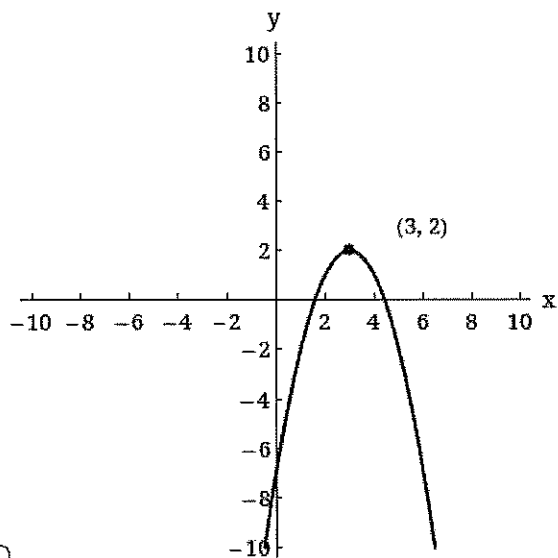
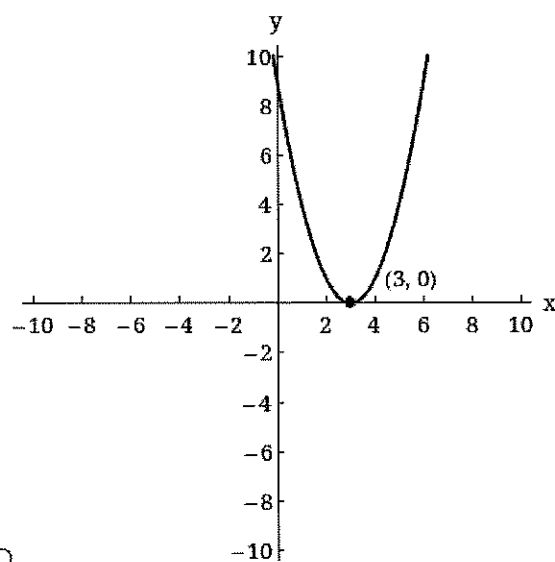
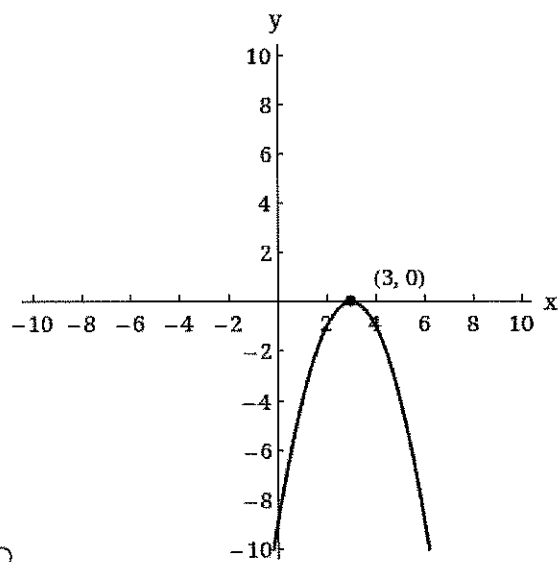
LARPCALC10 2.1.007.

MY NOTES

ASK YOUR TEACHER

Match the quadratic function with its graph.

$$f(x) = -(x - 3)^2$$

☐☐☐☐

5. [-/10 Points]

DETAILS

LARPCALC10 2.4.031.

MY NOTES

ASK YOUR TEACHER

Perform the operation and write the result in standard form.

$$(1 + i)(3 - 2i)$$

6. [-/10 Points]

DETAILS

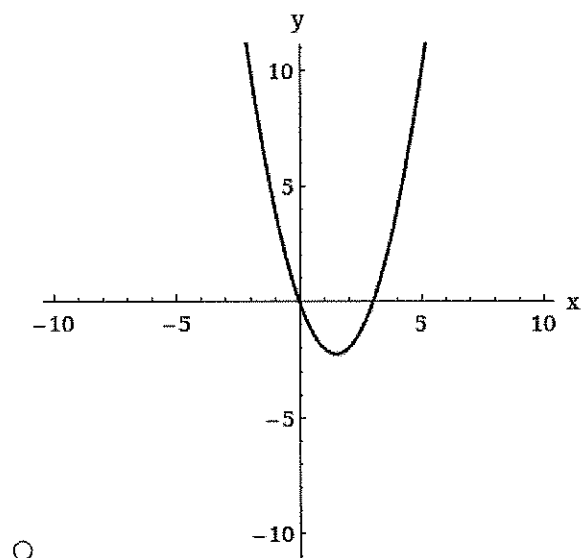
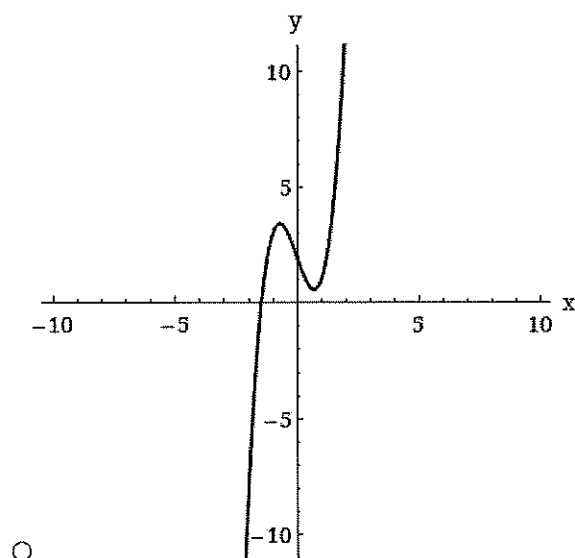
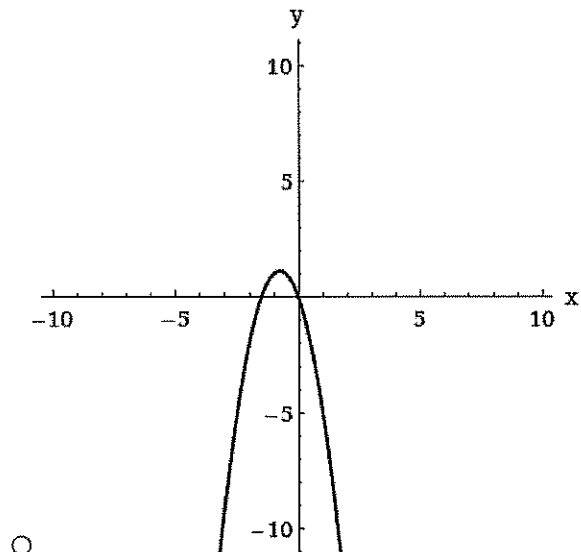
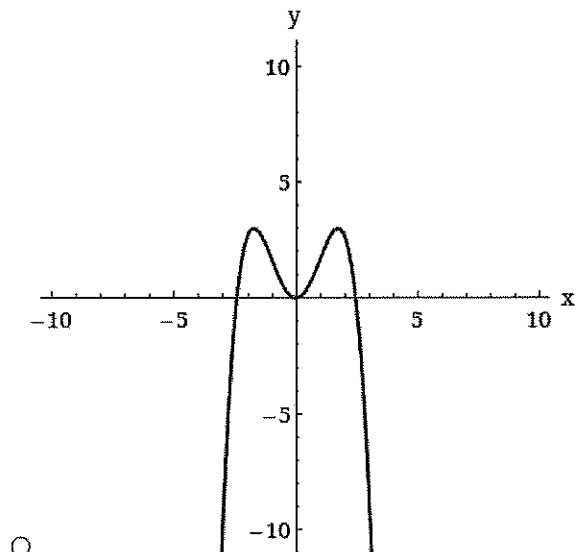
LARPCALC10 2.2.011.

MY NOTES

ASK YOUR TEACHER

Match the polynomial function with its graph.

$$f(x) = -\frac{1}{3}x^4 + 2x^2$$



7. [-/10 Points]

DETAILS

LARPCALC10 2.3.022.

MY NOTES

ASK YOUR TEACHER

Use long division to divide. (Simplify your answer completely.)

$$(5x^3 - 11 - 20x + x^4) \div (x^2 - x - 3)$$

$$, \quad x \neq \frac{1 - \sqrt{13}}{2}, \frac{1 + \sqrt{13}}{2}$$

8. [-/10 Points]

DETAILS

LARPCALC10 2.3.013.

MY NOTES

ASK YOUR TEACHER

Use long division to divide. (Simplify your answer completely.)

$$(6x^3 - 31x^2 - 24x + 5) \div (6x + 5)$$

$$, \quad x \neq -\frac{5}{6}$$

9. [-/10 Points]

DETAILS

LARPCALC10 2.4.014.

MY NOTES

ASK YOUR TEACHER

Write the complex number in standard form.

$$3 - \sqrt{-75}$$

10. [-/10 Points]

DETAILS

LARPCALC10 2.2.018.

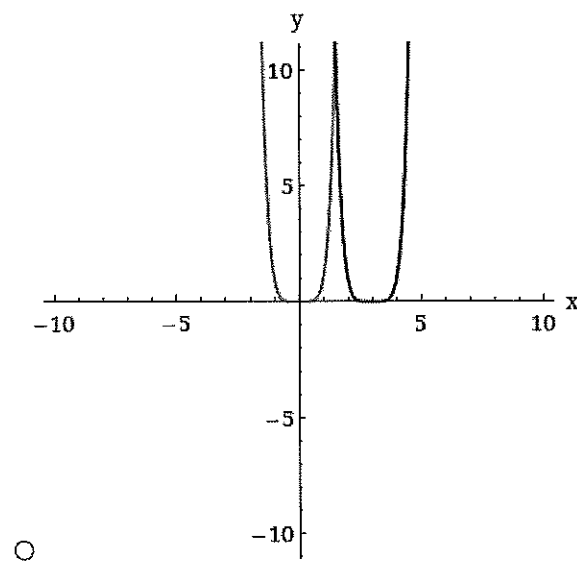
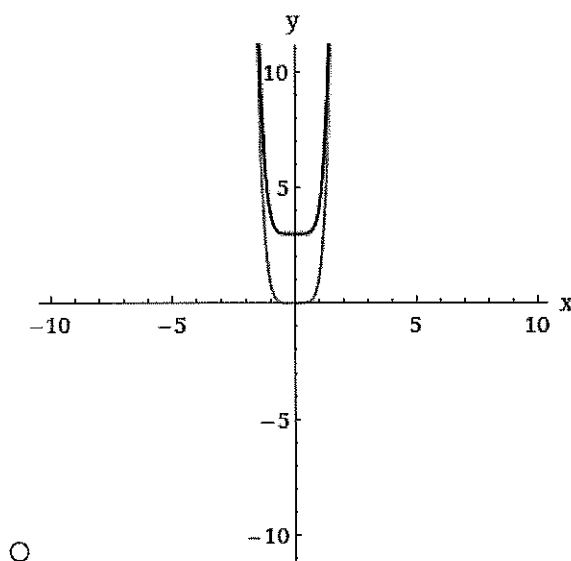
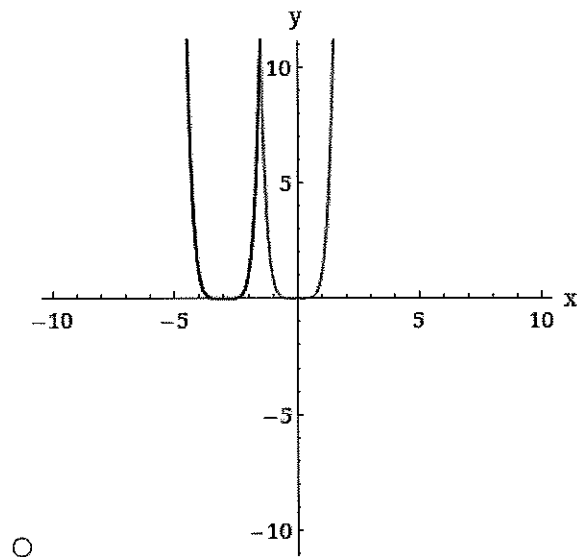
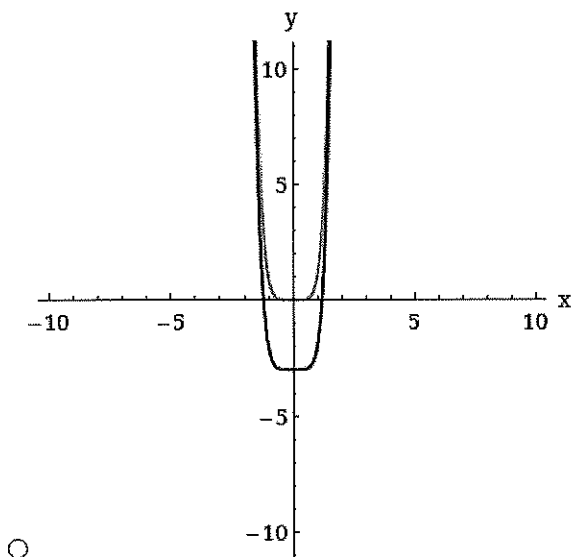
MY NOTES

ASK YOUR TEACHER

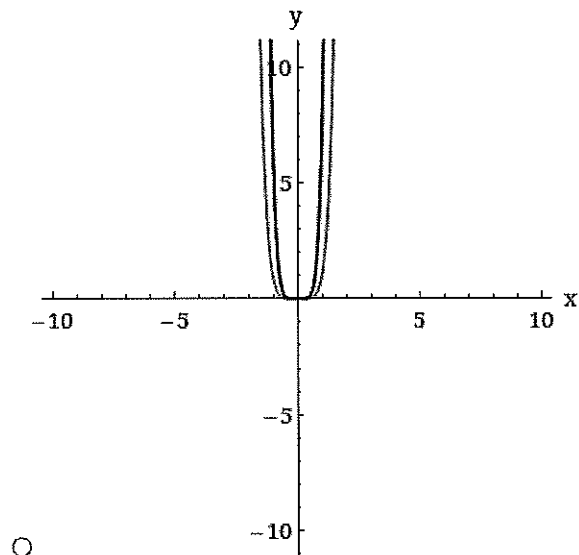
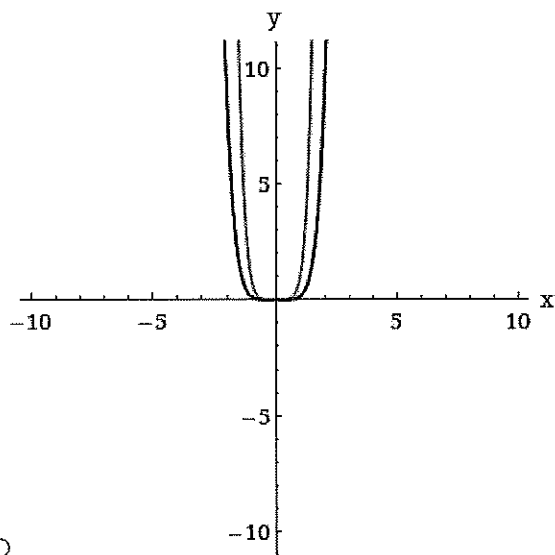
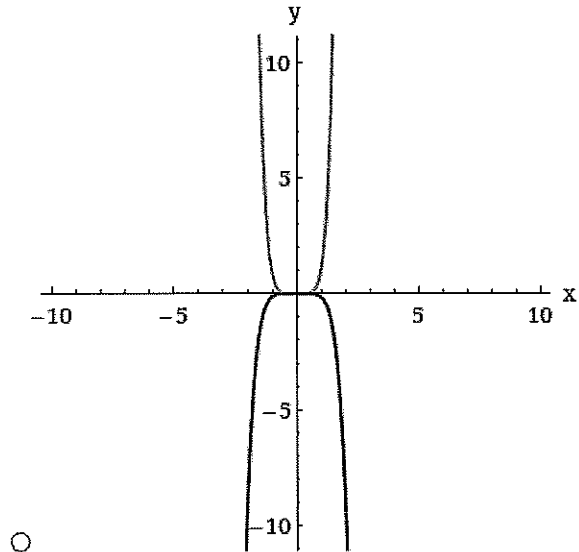
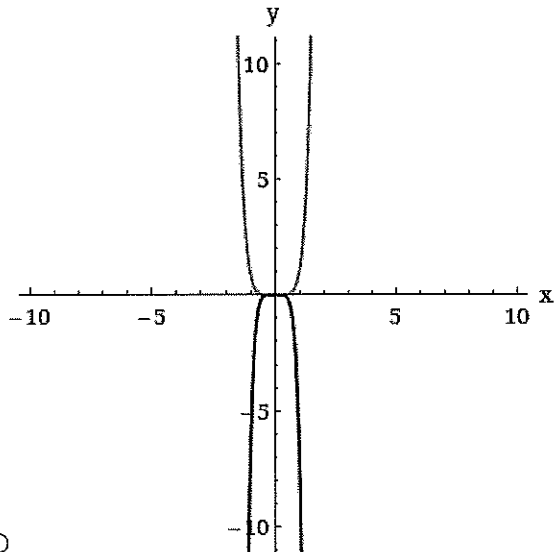
Sketch the graph of $y = x^n$ and each transformation.

$$y = x^6$$

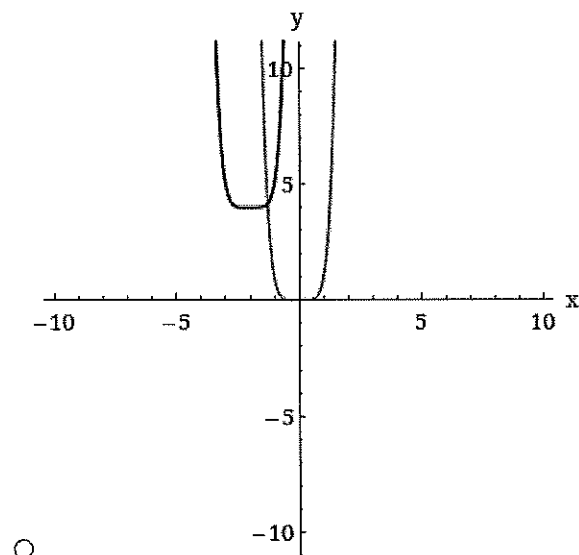
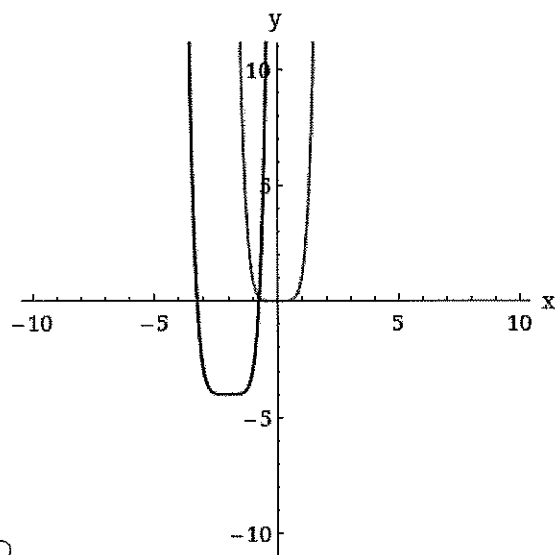
(a) $f(x) = (x - 3)^6$

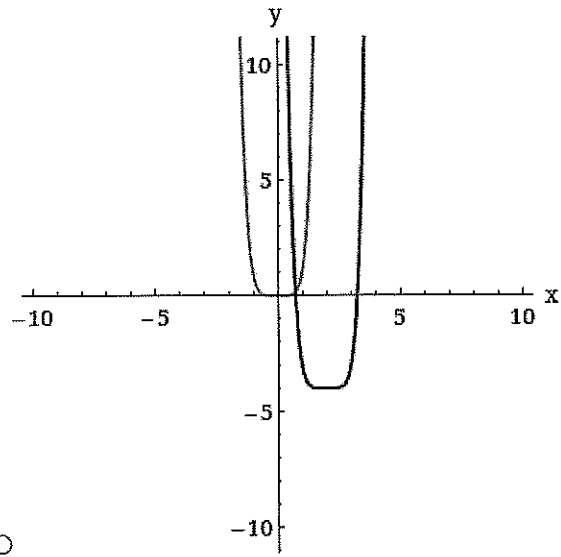
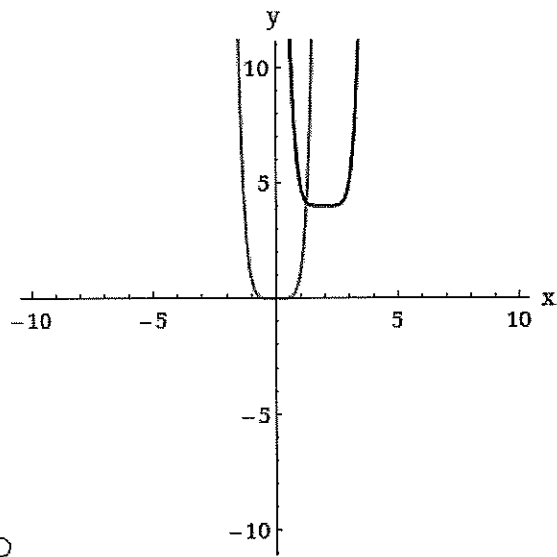


(b) $f(x) = \frac{1}{7}x^6$

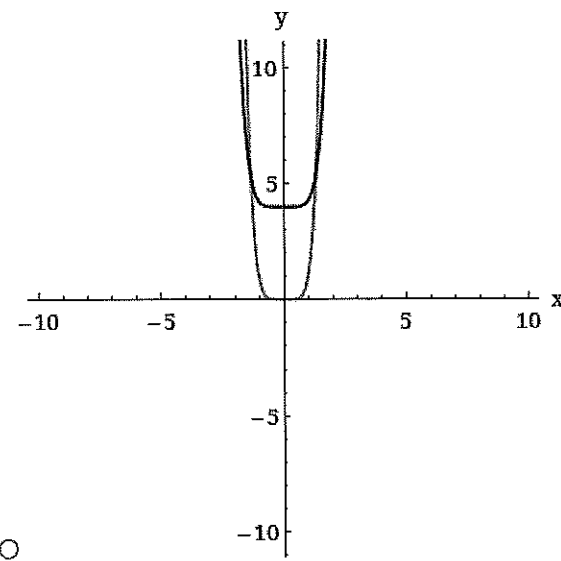
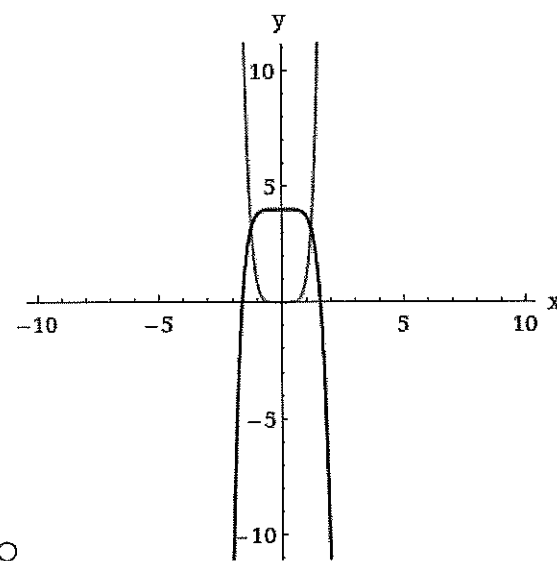
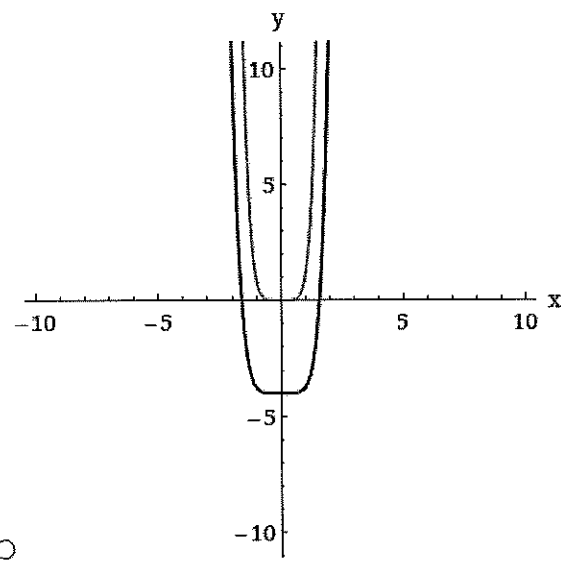
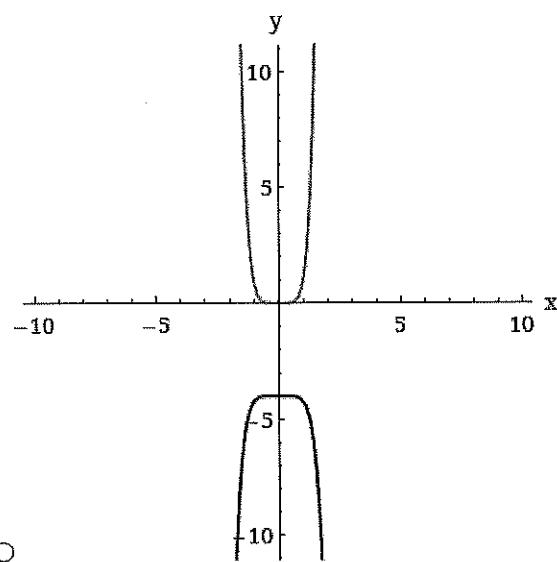


(c) $f(x) = (x + 2)^6 - 4$

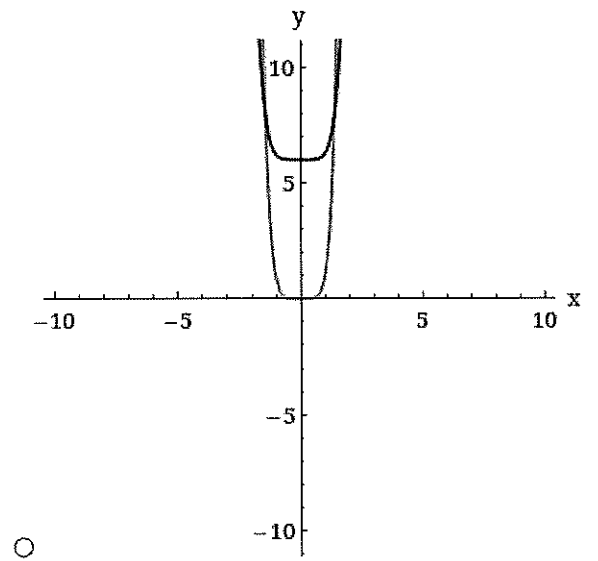
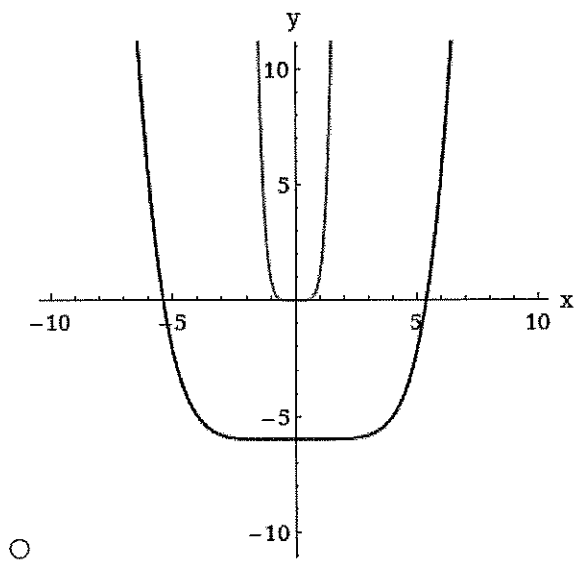
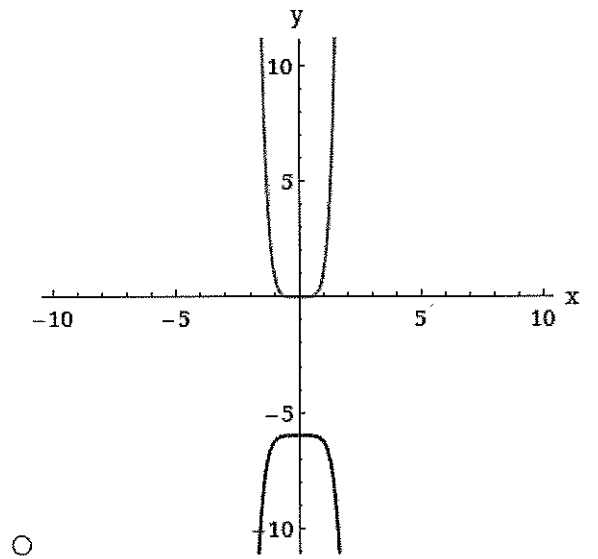
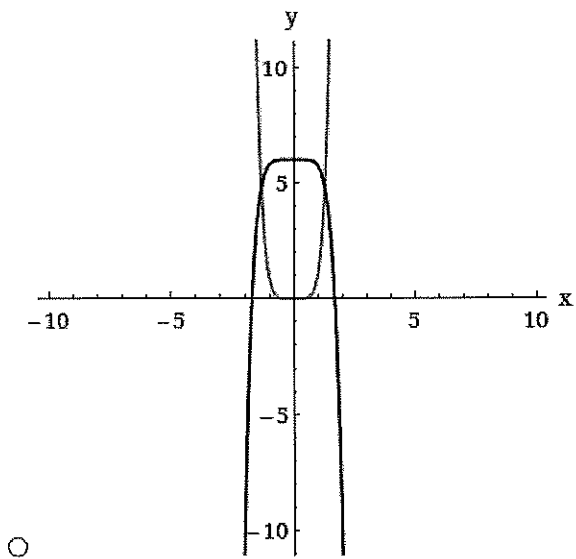




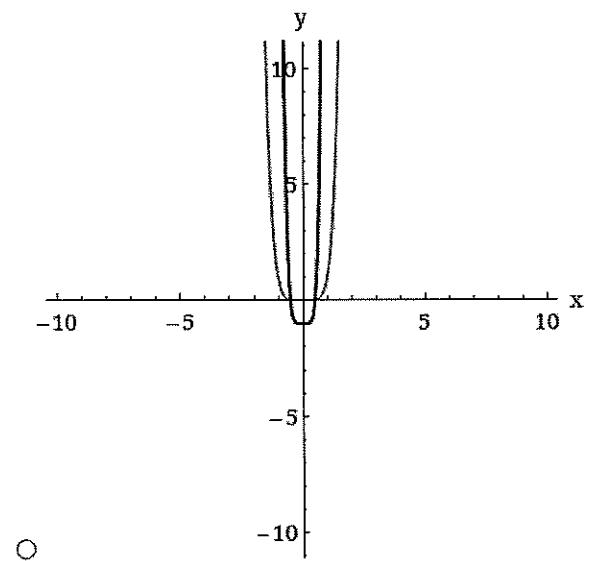
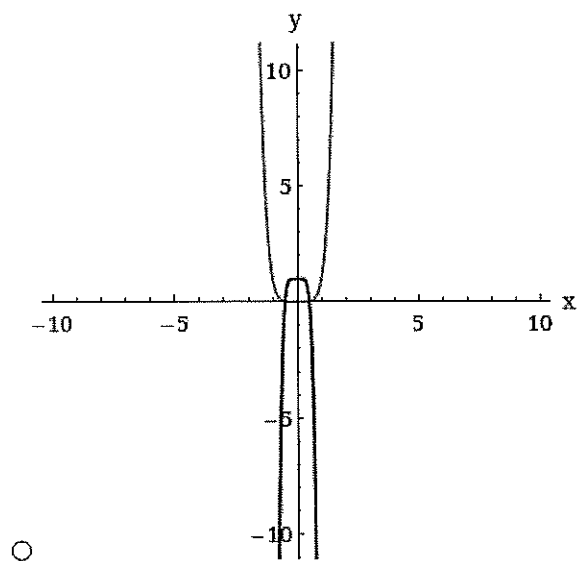
(d) $f(x) = -\frac{1}{4}x^6 + 4$

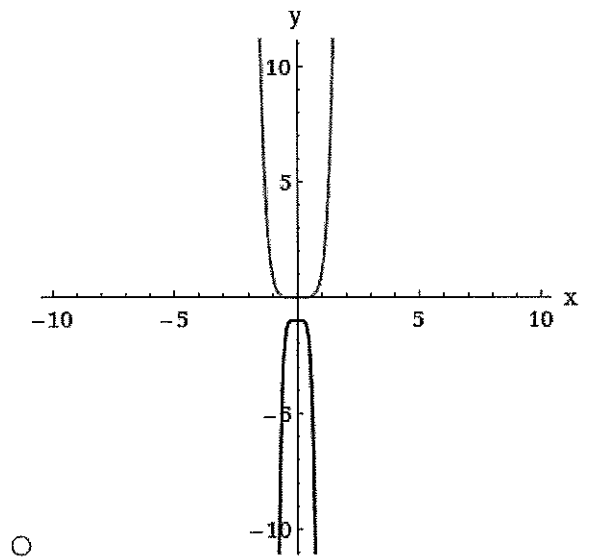
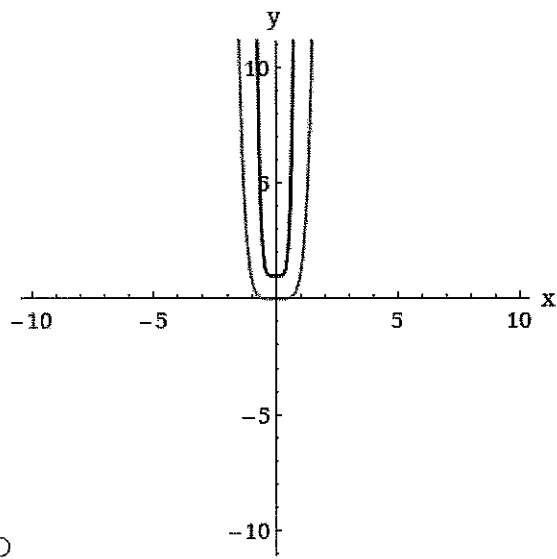


(e) $f(x) = \left(\frac{1}{4}x\right)^6 - 6$



(f) $f(x) = (2x)^6 - 1$





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