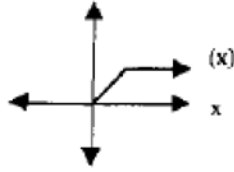


F.BF.B.3: Transformations with Functions 2

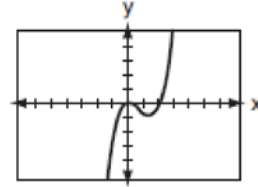
1 The graph below represents $f(x)$.



Which of the following is the graph of $-f(x)$?

- 1)
- 2)
- 3)
- 4)

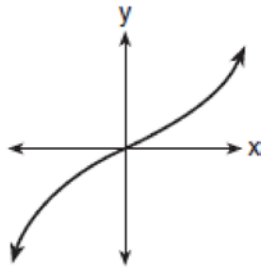
2 The accompanying graph represents the equation $y = f(x)$.



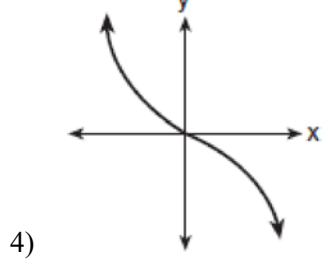
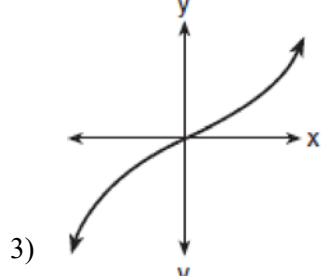
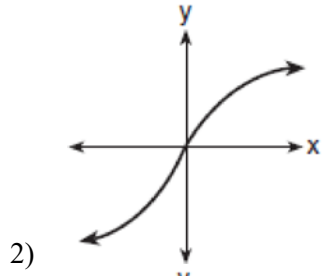
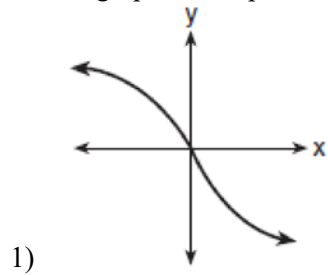
Which graph represents $g(x)$ if $g(x) = -f(x)$?

- 1)
- 2)
- 3)
- 4)

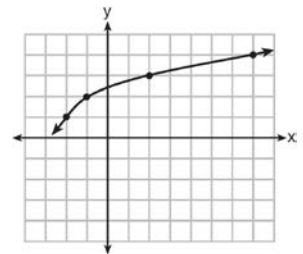
3 The graph below represents $f(x)$.



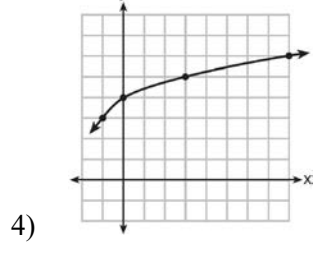
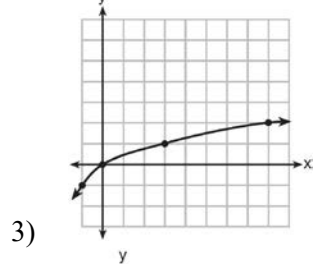
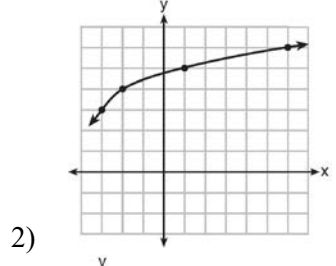
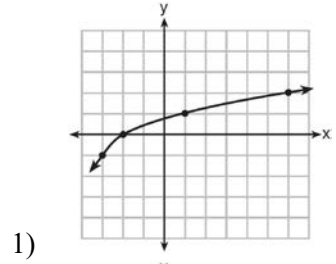
Which graph best represents $f(-x)$?



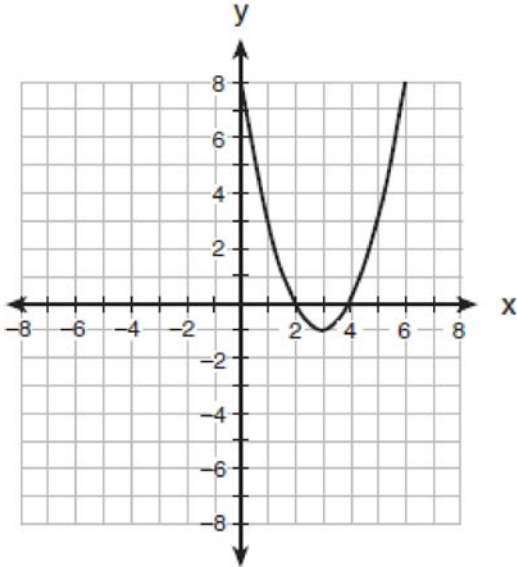
4 The graph of $y = f(x)$ is shown below.



What is the graph of $y = f(x + 1) - 2$?



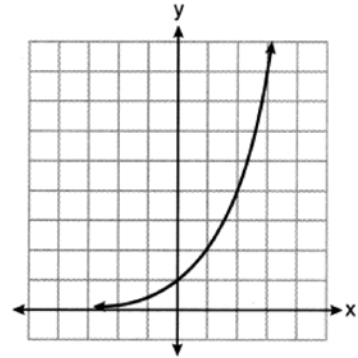
- 5 The parabola shown in the accompanying diagram undergoes a reflection in the y -axis.



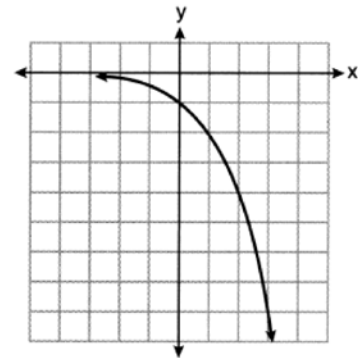
What will be the coordinates of the turning point after the reflection?

- 1) $(3, -1)$
- 2) $(3, 1)$
- 3) $(-3, 1)$
- 4) $(-3, -1)$

- 6 Consider the function $y = h(x)$, defined by the graph below.

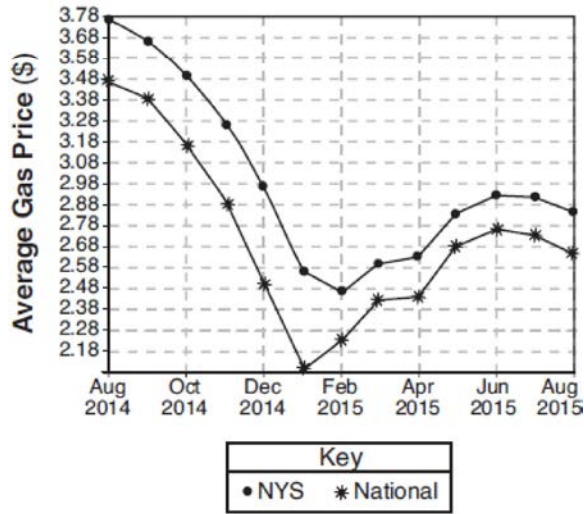


Which equation could be used to represent the graph shown below?



- 1) $y = h(x) - 2$
- 2) $y = h(x - 2)$
- 3) $y = -h(x)$
- 4) $y = h(-x)$

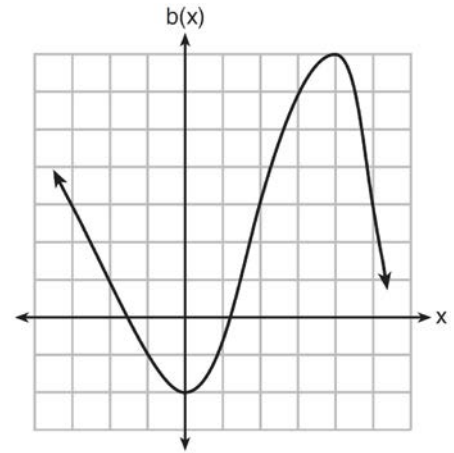
- 7 The graph below represents national and New York State average gas prices.



If New York State's gas prices are modeled by $G(x)$ and $C > 0$, which expression best approximates the national average x months from August 2014?

- 1) $G(x + C)$
- 2) $G(x) + C$
- 3) $G(x - C)$
- 4) $G(x) - C$

- 8 Richard is asked to transform the graph of $b(x)$ below.



The graph of $b(x)$ is transformed using the equation $h(x) = b(x - 2) - 3$. Describe how the graph of $b(x)$ changed to form the graph of $h(x)$.

F.BF.B.3: Transformations with Functions 2
Answer Section

1 ANS: 3 REF: fall9903b

2 ANS: 1 REF: 060701b

3 ANS: 4 REF: 080406b

4 ANS: 1 REF: 011620ai

5 ANS: 4 REF: 010901b

6 ANS: 3 REF: 062205aii

7 ANS: 4 REF: 081817aii

8 ANS:

2 units right and 3 units down.

REF: 081626ai