Function Families

Multiple Choice

Identify the choice that best completes the statement or answers the question.

What is the graph of the absolute value equation?

- 1. Which of the following describes the translation of y = |x| to y = |x + 7| 2?
 - y = |x| translated 7 units to the right and 7 c. y = |x| translated 2 units to the left and 7 a. units down
 - units down
 - units down
 - b. y = |x| translated 7 units to the left and 2 d. y = |x| translated 2 units to the right and 7 units up





Graph the function and its parent function. Then describe the transformation.

The graph of g is a vertical stretch and a reflection in the x-axis of the parent linear function.

The graph of g is a vertical stretch of the parent linear function.



d.

The graph of g is a vertical stretch of the parent quadratic function.



The graph of g is a vertical shrink of the parent quadratic function.

The graph of g is a vertical stretch of the parent quadratic function.



The graph of g is a vertical shrink of the parent quadratic function.





The graph of g is a translation 2 units left, a vertical shrink, and a translation 2 units up of the parent quadratic function.



The graph of g is a translation 2 units right, a vertical shrink, and a translation 2 units up of the parent quadratic function.



c.

The graph of g is a translation 2 units left, a vertical shrink, and a translation 2 units down of the parent quadratic function.



The graph of g is a translation 2 units right, a vertical shrink, a reflection in the *x*-axis, and a translation 2 units up of the parent quadratic function.

Function Families Answer Section

MULTIPLE CHOICE

- 1. B
- 2. D
- 3. C
- 4. C
- 5. B