Name

Function Transformations (Definition) - Single Definition (Values) to Transformation

1 Which function g(x) shows this transformation of f(x)?

Vertical stretch: 4

A $g(x) = f(4x)$

B $g(x) = 4f(x)$

2 Which function g(x) shows this transformation of f(x)?

Horizontal compression: 3)

A $g(x) = f(3x)$

B $g(x) = 3f(x)$

3 Which function g(x) shows this transformation of f(x)?

Reflect in X-Axis

A $g(x) = f(-x)$

B $g(x) = -f(x)$

4 Which function g(x) shows this transformation of f(x)?

Shift down: 3

A $g(x) = f(x) - 3$

B $g(x) = f(x) + 3$

5 Which function g(x) shows this transformation of f(x)?

Vertical compression: 0.2

A $g(x) = 0.2f(x)$

B $g(x) = f(0.2x)$

6 Which function g(x) shows this transformation of f(x)?

Shift right: 3

A $g(x) = f(x + 3)$

B $g(x) = f(x) + 3$

C $g(x) = f(x - 3)$

7 Which function g(x) shows this transformation of f(x)?

Vertical stretch: 5

A $g(x) = 5f(x)$

B $g(x) = f(5x)$

8 Which function g(x) shows this transformation of f(x)?

Shift left: 5

A $g(x) = f(x + 5)$

B $g(x) = f(x - 5)$