Name

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

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

Vertical stretch: 4

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

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

Shift left: 3

A	B
$g(x) = f(x) - 3$	$g(x) = f(x - 3)$
C	
$g(x) = f(x + 3)$	

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

Shift right: 2

A	B
$g(x) = f(x - 2)$	$g(x) = f(x + 2)$
C	
$g(x) = f(x) + 2$	

4

Reflect in X-Axis

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

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

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

Horizontal compression: 4

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

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

Shift up: 2

A	B
$g(x) = f(x - 2)$	$g(x) = f(x) - 2$
C	
$g(x) = f(x) + 2$	

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

Horizontal compression: 2

A	B
$g(x) = 2f(x)$	$g(x) = f(2x)$

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

Shift right: 5

A	B
$g(x) = f(x - 5)$	$g(x) = f(x) + 5$
C	
$g(x) = f(x + 5)$	