Name

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

1 What does this transformation produce in f(x)?

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

A Shift up: 5	B Shift right: 5
C Shift down: 5	

2 What does this transformation produce in f(x)? $g(x) = 0.25f(x)$

A Vertical stretch: 0.25	B Vertical compression: 0.25
C Horizontal compression: 0.25	

3 What does this transformation produce in f(x)? $g(x) = f(5x)$

A Vertical compression: 5	B Horizontal stretch: 5
C Horizontal compression: 5	

4 What does this transformation produce in f(x)? $g(x) = f(0.2x)$

A Vertical stretch: 0.2	B Horizontal stretch: 0.2
C Horizontal compression: 0.2	

5 What does this transformation produce in f(x)?

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

A Shift right: 3	B Shift down: 3
C Shift left: 3	

6 What does this transformation produce in f(x)? $g(x) = 0.33f(x)$

A Vertical stretch: 0.33	B Horizontal compression: 0.33
C Vertical compression: 0.33	

7 What does this transformation produce in f(x)? $g(x) = 0.5f(x)$

A Vertical stretch: 0.5	B Horizontal compression: 0.5
C Vertical compression: 0.5	

8 What does this transformation produce in f(x)?

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

A Shift up: 4	B Shift down: 4
C Shift right: 4	