



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

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

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

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

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

$$g(x) = f(x) - 2$$

- A Shift down: 2
B Shift up: 2

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

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

- A Shift up: 3
B Shift down: 3

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

$$g(x) = f(0.25x)$$

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

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

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

- A Vertical stretch: 4 B Horizontal stretch: 4
C Vertical compression: 4

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

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

- A Shift down: 4
B Shift up: 4

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

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

- A Reflect in X-Axis
B Reflect in Y-Axis

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

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

- A Vertical compression: 2 B Horizontal stretch: 2
C Horizontal compression: 2