Name

Function Transformations (Domain/Range) - Double Transformation (Values) to Transformed Domain/Range

1 If the domain of f(x) is [a,b], what is the domain of g(x)?

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

A	B
$[\frac{a}{4}, \frac{b}{4}]$	$[$

2 If the range of f(x) is [a,b], what is the range of g(x)?

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

A	B	C
$[\frac{a}{0.25}, \frac{b}{0.25}]$	$[-b, -a]$	$[\frac{-b}{0.25}, \frac{-a}{0.25}]$

3 If the range of f(x) is [a,b], what is the range of g(x)?

$$g(x) = 0.25f(x-5)$$

A	B
$[a+5, b+5]$	$[0.25 \cdot a, 0.25 \cdot b]$
C	
$[\frac{a+5}{0.25}, \frac{b+5}{0.25}]$	

4 If the domain of f(x) is [a,b], what is the domain of g(x)?

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

A	B
$[$	$[-b, -a]$

5 If the domain of f(x) is [a,b], what is the domain of g(x)?

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

A	B
$[$	$[\frac{-b}{0.25}, \frac{-a}{0.25}]$

6 If the range of f(x) is [a,b], what is the range of g(x)?

$$g(x) = 5f(x) + 4$$

A	B
$[5 \cdot a + 4, 5 \cdot b + 4]$	$[\frac{a}{5}, \frac{b}{5}]$
C	
$[a, b]$	

7 If the domain of f(x) is [a,b], what is the domain of g(x)?

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

A	B
$[-b, -a]$	$[$

8 If the domain of f(x) is [a,b], what is the domain of g(x)?

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

A	B
$[-b, -a]$	$[$