Name

Function Transformations (Vertex) - Single Transformed Vertex (Variables) to Transformation

1

$$\left(\frac{a}{w}, b\right)$$

If the vertex of f(x) is (a,b), which function g(x) would have this vertex?

A	B
$g(x) = f(w \cdot x)$	$g(x) = w \cdot f(x)$

2

$$(a, -b)$$

If the vertex of f(x) is (a,b), which function g(x) would have this vertex?

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

3

$$(a - r, b)$$

If the vertex of f(x) is (a,b), which function g(x) would have this vertex?

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

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

4

$$\left(\frac{a}{t}, b\right)$$

If the vertex of f(x) is (a,b), which function g(x) would have this vertex?

A	B
$g(x) = f(t \cdot x)$	$g(x) = t \cdot f(x)$

5

If the vertex of f(x) is (a,b), which function g(x) would have this vertex?

$$(a - w, b)$$

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

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

6

$$(-a, b)$$

If the vertex of f(x) is (a,b), which function g(x) would have this vertex?

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

7

$$(a, b - p)$$

If the vertex of f(x) is (a,b), which function g(x) would have this vertex?

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

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

8

$$(a, p \cdot b)$$

If the vertex of f(x) is (a,b), which function g(x) would have this vertex?

A	B
$g(x) = p \cdot f(x)$	$g(x) = f(p \cdot x)$