Name

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

1 If the vertex of f(x) is (a,b), what is the vertex of g(x)?

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

A	$(a, b+2)$	B	$(a-2, b)$
C	$(a+2, b)$		

2 If the vertex of f(x) is (a,b), what is the vertex of g(x)?

$$g(x) = 0.5f(x)$$

A $(a, 0.5 \cdot b)$

B $(\frac{a}{0.5}, b)$

3 If the vertex of f(x) is (a,b), what is the vertex of g(x)?

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

A	$(a-4, b)$	B	$(a, b+4)$
C	$(a+4, b)$		

4 If the vertex of f(x) is (a,b), what is the vertex of g(x)?

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

A $(\frac{a}{4}, b)$

B $(a, 4 \cdot b)$

5 If the vertex of f(x) is (a,b), what is the vertex of g(x)?

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

A	$(a+3, b)$	B	$(a, b+3)$
C	$(a, b-3)$		

6 If the vertex of f(x) is (a,b), what is the vertex of g(x)?

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

A $(a, b+2)$

B $(a, b-2)$

7 If the vertex of f(x) is (a,b), what is the vertex of g(x)?

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

A	$(a, b+2)$	B	$(a+2, b)$
C	$(a, b-2)$		

8 If the vertex of f(x) is (a,b), what is the vertex of g(x)?

$$g(x) = f(0.33x)$$

A $(a, 0.33 \cdot b)$

B $(\frac{a}{0.33}, b)$