



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

1 If the vertex of $f(x)$ is (a,b) , which function $g(x)$ would have this vertex? $(a, r \cdot b - m)$

A $g(x) = r \cdot f(x) - m$ B $g(x) = r \cdot f(x) + m$

C $g(x) = f(r \cdot x) - m$

2 If the vertex of $f(x)$ is (a,b) , which function $g(x)$ would have this vertex? $(\frac{a}{q}, p \cdot b)$

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

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

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

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

C $g(x) = p \cdot f(-x)$

$(-\frac{a}{p}, b)$

4 If the vertex of $f(x)$ is (a,b) , which function $g(x)$ would have this vertex? $(-a, t \cdot b)$

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

C $g(x) = -t \cdot f(x)$

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

A $g(x) = f(q \cdot x - z)$

B $g(x) = q \cdot f(x + z)$

C $g(x) = f(q \cdot x + z)$

$(\frac{a}{q} - z, b)$

6 If the vertex of $f(x)$ is (a,b) , which function $g(x)$ would have this vertex? $(a - q, b - m)$

A $g(x) = f(x + q) - m$ B $g(x) = f(x - q) - m$

C $g(x) = f(x + q) + m$

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

A $g(x) = f(m \cdot x) + w$

B $g(x) = m \cdot f(x) - w$

C $g(x) = f(m \cdot x) - w$

$(\frac{a}{m}, b - w)$

8 If the vertex of $f(x)$ is (a,b) , which function $g(x)$ would have this vertex? $(\frac{a}{q} - w, b)$

A $g(x) = f(q \cdot x + w)$

B $g(x) = q \cdot f(x + w)$

C $g(x) = f(q \cdot x - w)$