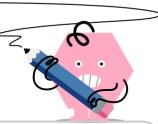


mobius

Function Transformations (Domain/Range) - Single Transformed



Domain/Range (Values) to

Transformation

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

$$[\frac{a}{0.33}, \frac{b}{0.33}]_{\dot{a}}$$

$$oxed{\mathsf{B}}$$
 $g(x)=0.33f(x)$ $g(x)=f(0.33x)$

$$[rac{a}{0.25}$$
 , $rac{b}{0.25}]^{ ilde{A}}$

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

$$q(x) = 0.25 f(x) | q(x) = f(0.25x)$$

3 If the range of f(x) is [a,b], which function g(x) would have this range?

$$[a + 4, b + 4]$$

$$egin{array}{cccccc} \mathsf{A} & g(x) = f(x) - \mathsf{4} & \mathsf{B} & g(x) = f(x) + \mathsf{4} \ & \mathsf{C} & g(x) = f(x - \mathsf{4}) & & & \end{array}$$

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

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

5

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

$$[\frac{a}{0.2}, \frac{b}{0.2}]$$

A B
$$g(x)=0.2f(x)$$
 $g(x)=f(0.2x)$

6 If the range of f(x) is [a,b], which function g(x) would have this range?

$$[a-3, b-3]$$

If the range of f(x) is [a,b], which function g(x) would

have this range?

 $\left|a+5,b+5
ight|$

$$A \qquad g(x) = f(x) - 3$$

$$\mathsf{B} \qquad g(x) = f(x) + 3$$

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

7 If the range of f(x) is [a,b], which function g(x) would have this range?

$$\begin{bmatrix} a - 2 & b - 2 \end{bmatrix}$$

$$[a-2, b-2]$$

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

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

$$B \qquad g(x) = f(x) + 5$$

$$G \qquad g(x) = f(x) + 2$$

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

$$= f(x-5)$$