

Inverse Functions

Inverse functions -

The domain

For a function to have an inverse

To find the inverse

Determine whether each pair of functions f and g are inverse of each other

1) $f(x) = 6x$ and $g(x) = \frac{x}{6}$

3) $f(x) = 3x - 7$ and $g(x) = \frac{x+3}{7}$

2) $f(x) = \frac{3}{x-4}$ and $g(x) = \frac{3}{x} + 4$

4) $f(x) = 4x + 9$ and $g(x) = \frac{x-9}{4}$

Find $f^{-1}(x)$, then verify it by showing $f(f^{-1}(x)) = f^{-1}(f(x)) = x$

5) $f(x) = \frac{2}{x}$