

Inverse Functions and Relations



Lesson 7: Inverse Functions and Relations

If a relation pairs element a of its domain with element b of its range, the inverse relation "undoes" the relation and pairs b with a . If (a, b) is an ordered pair of a relation, then (b, a) is an ordered pair of its inverse.

If function f pairs a value b with a , then its inverse is denoted f^{-1} and pairs the value a with b . If f^{-1} is also a function, then f and f^{-1} are called **inverse functions**.

Example:

$$f(x) = x + 3$$
$$f^{-1}(x) = x - 3$$

Composition of Inverse Functions

If f and f^{-1} are inverse functions, then $f^{-1}(f(x)) = x$ and $f(f^{-1}(x)) = x$ for x in the domains of f and f^{-1} respectively.

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Algebra 2 Inverse Functions And Relations Answers

A. A. Frempong



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