

Advanced Algebra - Unit 6 – Inverse Functions

Notes and Information on Inverse Functions

I. Functions

A. Relation

1. A **relation** is any correspondence between a set of input values and output values.
2. The set of all inputs (x) is the **domain** of the relation.
3. The set of all outputs (y or $f(x)$) is the **range** of the relation.

B. Function

1. A **function** is a special type of relation in which for every member of its domain (x) is associated with exactly one member of its range (y or $f(x)$).
2. In other words, a function is a relationship in which each input value has a unique out value. For every " x " there is one and only one value of " y " associated with that " x ".
3. Examples:
 - a. If you are working at Suds Car Wash for an hourly wage, the relationship between the numbers of hours you work and the resulting income you earn is a function.
 - b. Every holder of a social security card in the United States is assigned a nine-digit social security number.

C. Functional Notation

1. Functional notation is often used to represent functions.
2. $f(x)$ is read f of x or the value of the function f at x .
3. Example:
 - a. If $f(x) = 3x - 2$, then $f(-3) = 3(-3) - 2$; this equals -11 , so $f(-3) = -11$

D. Composite Functions

1. Applying one function to the answer of another function is called the **Composition of Functions**.
2. $f \circ g(x)$ or $f(g(x))$ is read f of g of x or the value of the function f at the value of the function g at x .

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