

## 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 output 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. Examples:
  - 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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**Des Moines College, Des Moines, Ia**

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