CS1231 Review 9

1. A Function $f:A\to B$ is an assignment of exactly one element of B to each element of A.

If $b \in B$ is assigned to $a \in A$, then we write f(a) = b. b is called image of a, and a is called f(a) = b.

A is called <u>domain</u>. B is called <u>codomain</u>. $f(A) = \{f(a) \mid a \in A\}$ is called <u>range image</u>.

2. We define two functions from \mathbb{R} to \mathbb{R} : f(x) = x + 1, $g(x) = x^2$. (f+g)(x) = x + 1, f(x) = x