Index Card #2

Functions

A <u>Function</u> has No Repeating X-Values
– Use The Vertical Line Test To Determine If You
   Have a Function

<u>One-to-One</u> : No Repeating Y-Values
                    (Has to Be a Function 1st)
 – Use the Horizontal Line Test To Determine If You
   Have a Function

<u>Onto</u>: All of the Y Values are Used

<u>Domain</u>: The x-values
            (Smallest x value to Largest x value)

<u>Range</u>: The y-values
            (Smallest y value to Largest y value)

<u>Evaluating Functions</u> : Remember F(x) is the same as Y
        Substitute the Number or Variable in ( ) in The
        Expression For X - Simplify

<u>Inverse</u>: $f^{-1}(x)$
            1. Change F(X) to Y
            2. Switch X and Y
            3. Solve for Y