

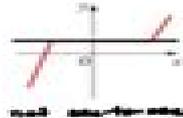
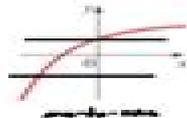
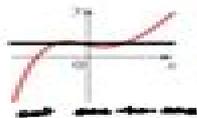
### Math 110 Guided Lecture Sheet Sect 2.8

A function with a domain  $A$  is called a **one-to-one function** if no two elements of  $A$  have the same image, that is,

$f(x_1) \neq f(x_2)$  whenever  $x_1 \neq x_2$ , equivalently, if  $f(x_1) = f(x_2)$ , then  $x_1 = x_2$ .

A test to see if a function is one-to-one is the **Horizontal Line Test**. If a horizontal line intersects the graph more than once, the function is not one-to-one.

1. Determine which of the following are one-to-one functions.



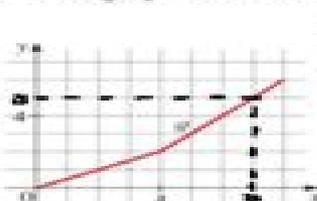
Now, why do we care if a function is one-to-one? It allows the function to have an inverse.

Let  $f$  be a one-to-one function with domain  $A$  and range  $B$ . Then its inverse function  $f^{-1}$  has domain  $B$  and range  $A$ , and is defined by:

$f^{-1}(y) = x$  if and only if  $f(x) = y$  for any  $y$  in  $B$ .

In other words, inverse functions switch  $x$  and  $y$  values.

2. Use the graph below to answer the following.



$$f^{-1}(7) = 5$$

$$f(5) = 7$$

$$f^{-1}(2) = 4$$

$$f(4) = 2$$

Notice in the last problem, when we plug the inverse function into the original function, they essentially "undo" each other, and we get back to what we started with, in this case, it was a  $y = 2$ .

**Inverse Function Property** Let  $f$  be a one-to-one function with domain  $A$  and range  $B$ . The inverse function  $f^{-1}$  satisfies the following properties:

$f^{-1}(f(x)) = x$  for every  $x$  in  $A$  and  $f(f^{-1}(x)) = x$  for every  $x$  in  $B$ .

Any  $f^{-1}$  satisfying these equations is the inverse of  $f$ .

3. Use the Inverse Function Property to show that the following pairs of functions are inverses.

$$f(x) = \frac{1}{x}$$

$$f(x) = x^2 + 1$$

$$g(x) = \frac{1}{x}$$

$$g(x) = (x - 1)^{\frac{1}{2}}$$

$$\begin{aligned} f^{-1}(x) &\Rightarrow y = \frac{1}{x} \\ x - x &= \frac{1}{y} - x \\ xy &= 1 \\ y &= \frac{1}{x} \end{aligned}$$

$$\begin{aligned} f^{-1}(x) &\Rightarrow y = x^2 + 1 \\ x &= y^2 + 1 \\ x - 1 &= y^2 \\ \sqrt{x-1} &= y \\ (x-1)^{\frac{1}{2}} &= y \end{aligned}$$

# Lecture Math Guide

**WJ Hussar**



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