Math 1050-006 Homework 4

Assigned: 9/26/2012 Due: 10/3/2012

Please clearly identify which problems you are working on.

Please staple all your solutions together and write your name and student id number clearly on the top of the first page.

Book Problems:

1) Inverse Functions: 1-3, 7-9, 13-20

2) n-th Roots: 1-4, 7-10, 14, 15, 18-23, 24-26

Additional Problems:

- 1) If you are given the graph of a function, f(x), and you are told that f(x) is invertible, can you graph the inverse of f(x)? How?
- 2) Does the function, $f(x) = \frac{1}{x^n}$ have an inverse function if n is even? What does the domain and target of f(x) and $f^{-1}(x)$ need to be for the inverse to be a function?