## 1128-58-80 Eric Foley\* (efoley92@live.com). The Inverse and Implicit Function Theorems. Preliminary report.

We will discuss the proof and applications of the implicit and inverse functions theorems. In doing so will show their equivalence. Finally these theorems will be generalized and we will show how they are special cases of the constant rank theorem. (Received February 14, 2017)