

Math 5364 Homework 16

1. Load the `fgl` data set in the `MASS` library.

```
library(MASS)
data(fgl)
```

Split the data into 70% training and 30% testing data. Predict the glass types in the test data using the following three methods, and compare the classification accuracies of these methods.

- (a) Build an SVM and use the `predict` command.
- (b) Write a script implementing the one-against-rest approach with SVM's (much of the code you need is in the "Programming one-against-rest" section of `Chapter5.R`).
- (c) Write a script implementing the one-against-one approach with SVM's.