# ECS 152A Project Phase 1

## 3.7 Expirments

1. Assume . Plot the queue length and the server utilization as a function of for when the buffer size is infinite.

1. Mathematically compute mean queue length and the server utilization and compare with the simulation results (The mathematical formulation will be discussed in class).

**The mean length of an M/M/1 Queue with infinite buffer size is given by**  , where .

**The mean utilization of an M/M/1 Queue with infinite buffer size is given by** .

**(Refer to *Super Cool Enhanced Graphs* above)**