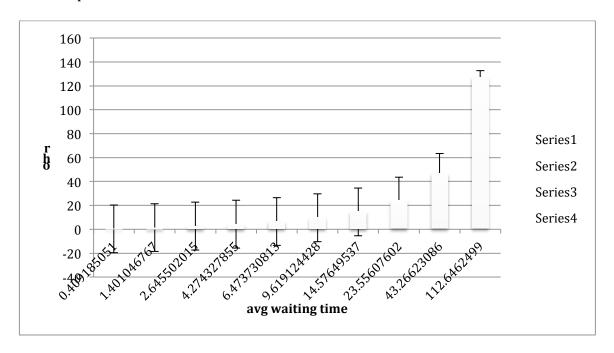
HomeWork-5

Problem1:

We calculate 95% confidence interval based on the normal distribution and a relative-precision of 0.1.

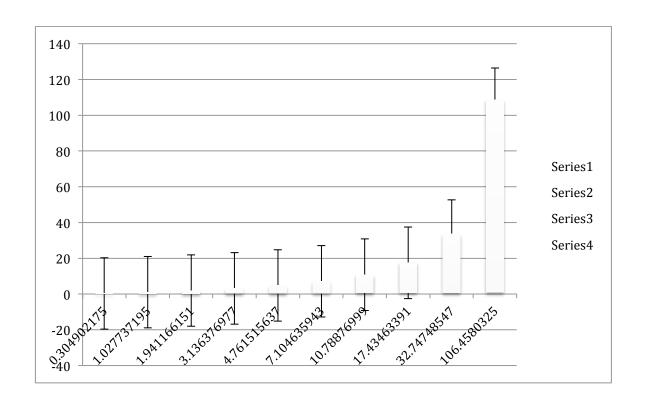


Problem2:

We need to generate the antithetic variates.

Y=-(1/lambda)*log(1-exp^-lambda*X)

The Graph Obtained is shown below:



Problem3:

To calculate the control variate we first find the Vi = Yi+c'(Zi-E[Z])Where c'=-Cov(Y,Z)/Var(Z)

