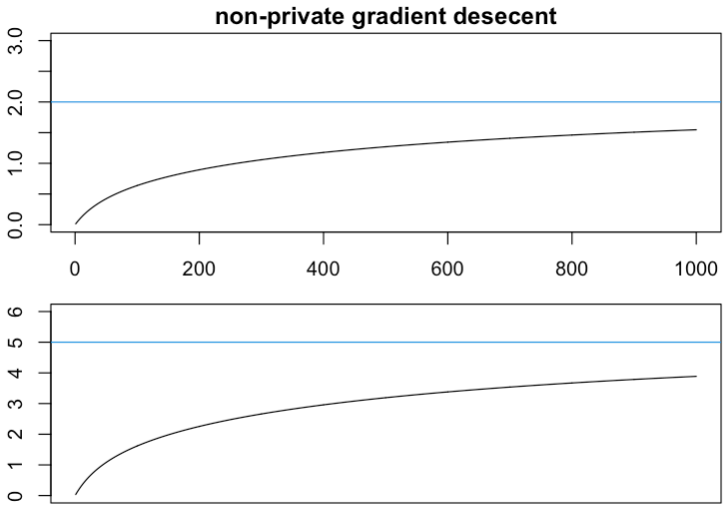
Adaptive Gradient Descent

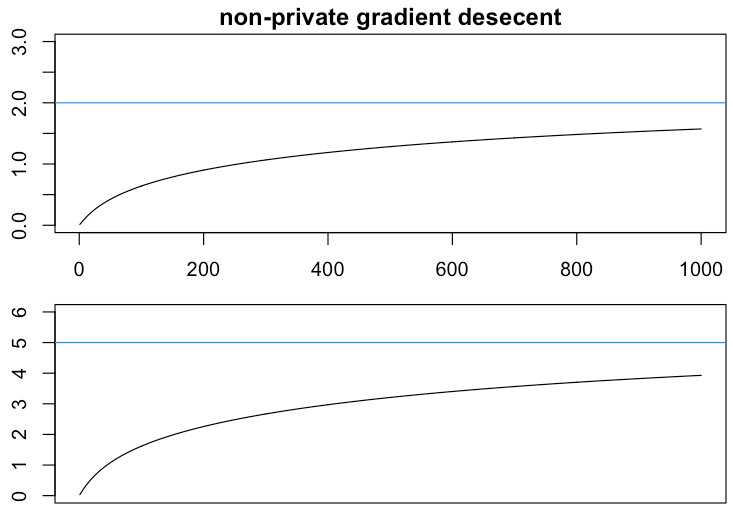
Non-private Gradient Descent with truncation

Iteration vs Parameter estimates

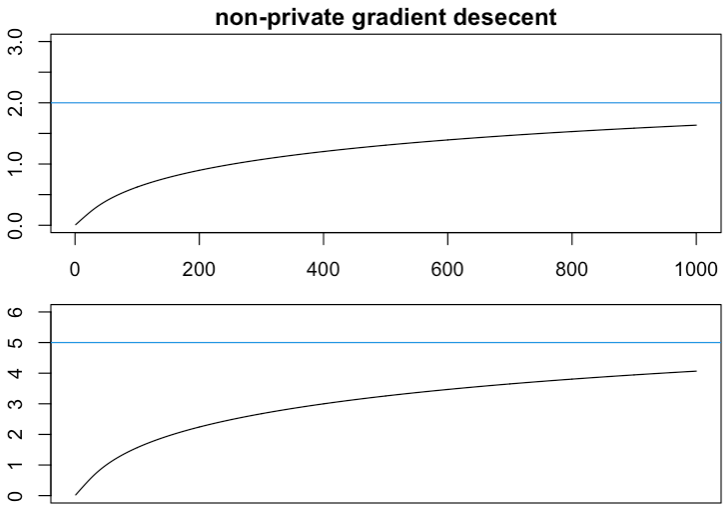
gradient and objective truncation: 3



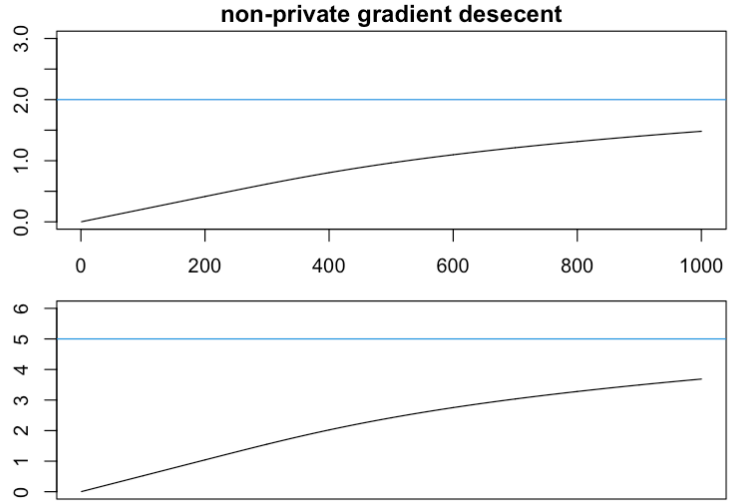
gradient and objective truncation: 1



gradient and objective truncation: 0.5



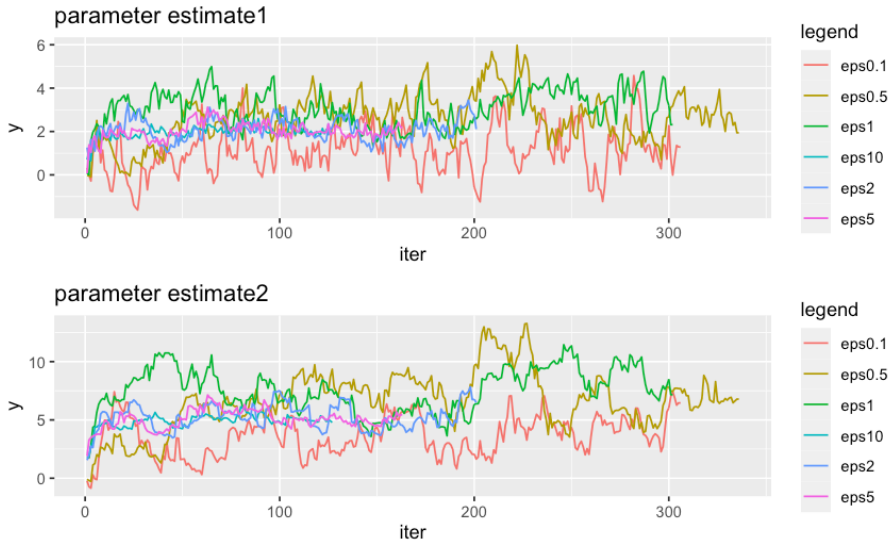
gradient and objective truncation: 0.1



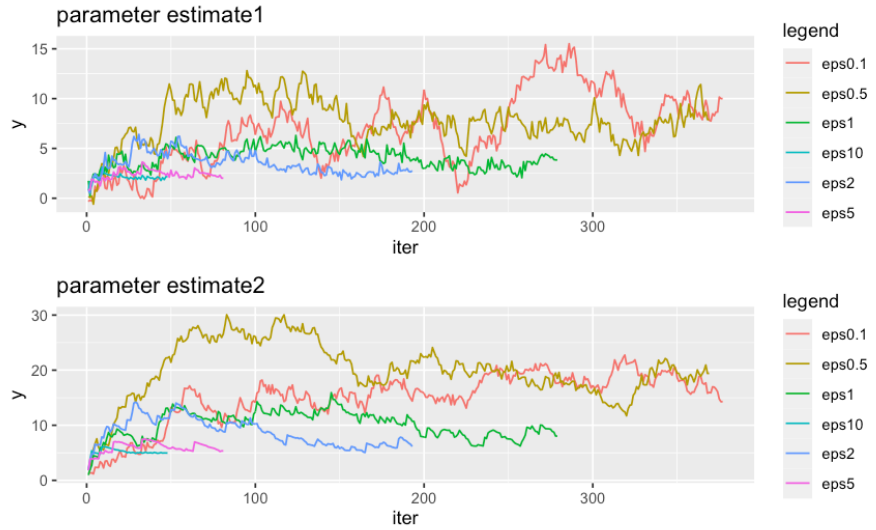
Differentially private Gradient Descent

Iteration vs Parameter estimates

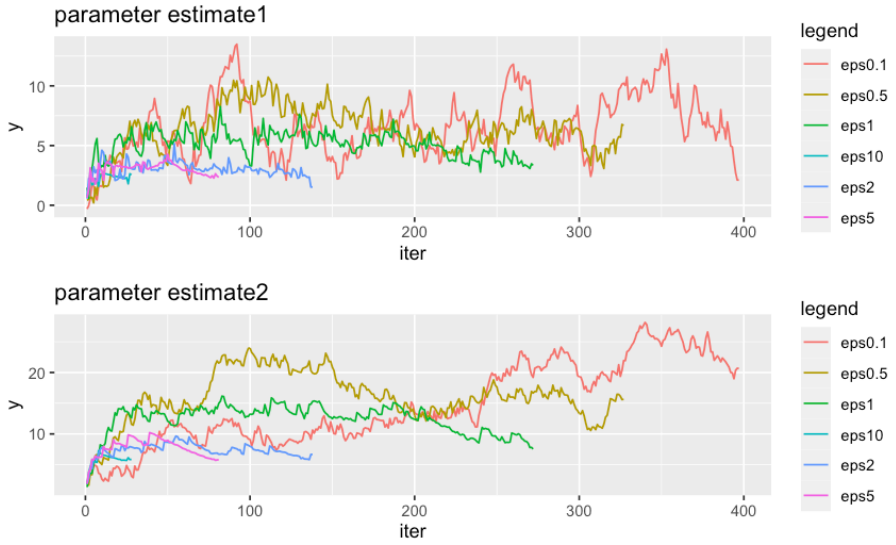
gradient and objective truncation: 3



gradient and objective truncation: 1



gradient and objective truncation: 0.5



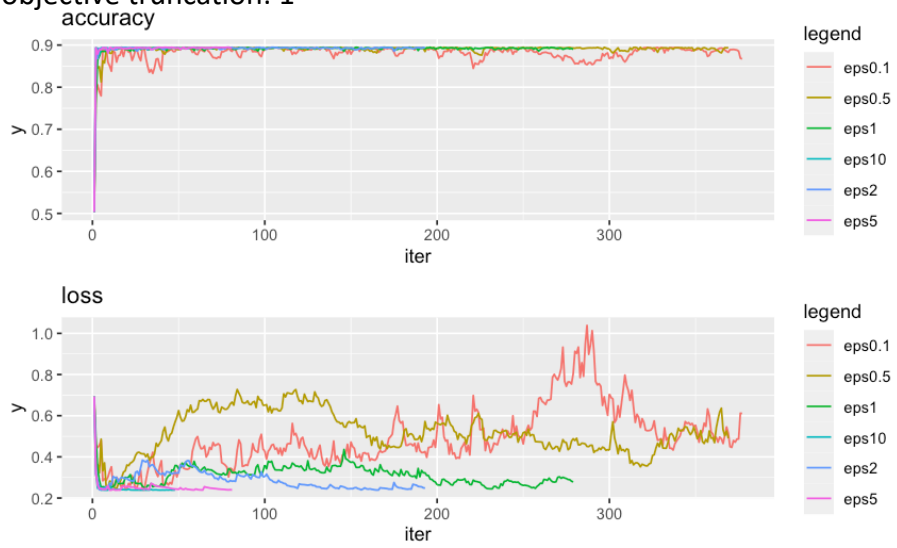
gradient and objective truncation: 0.1

Differentially private Gradient Descent

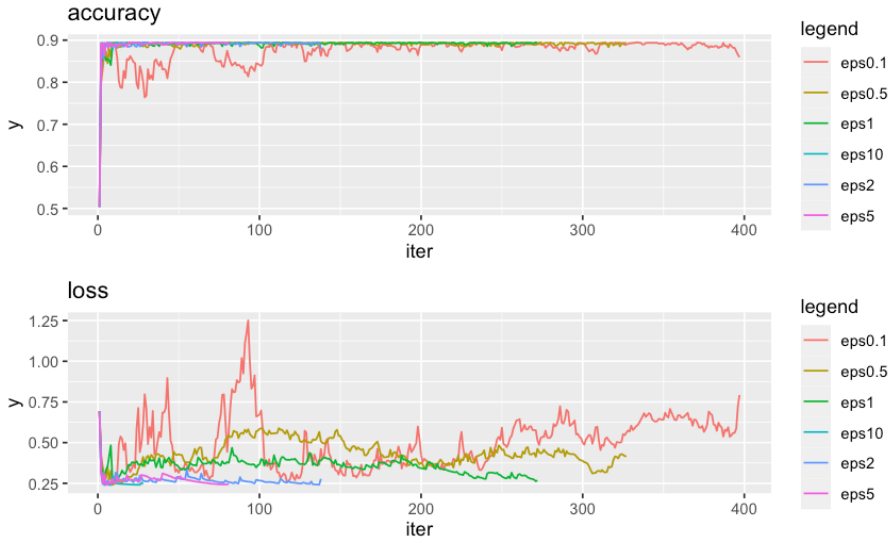
Iteration vs Accuracy / Loss

gradient and objective truncation: 3

gradient and objective truncation: 1



gradient and objective truncation: 0.5



gradient and objective truncation: 0.1