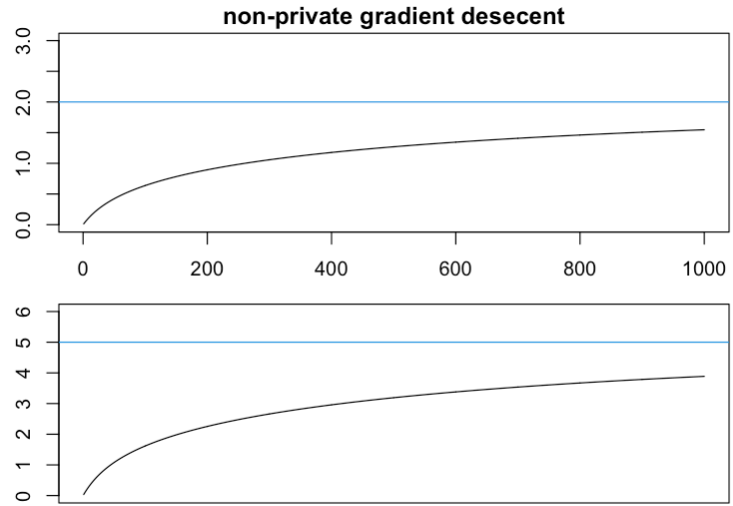


# Adaptive Gradient Descent

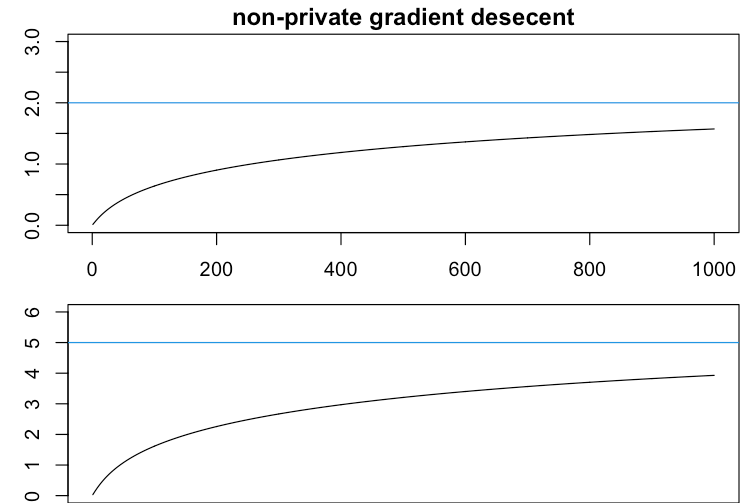
# Non-private Gradient Descent with truncation

## Iteration vs Parameter estimates

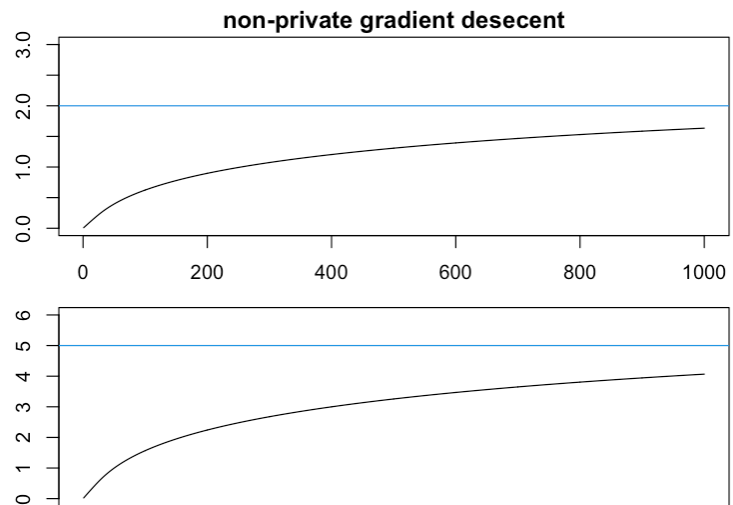
gradient and objective truncation: 3



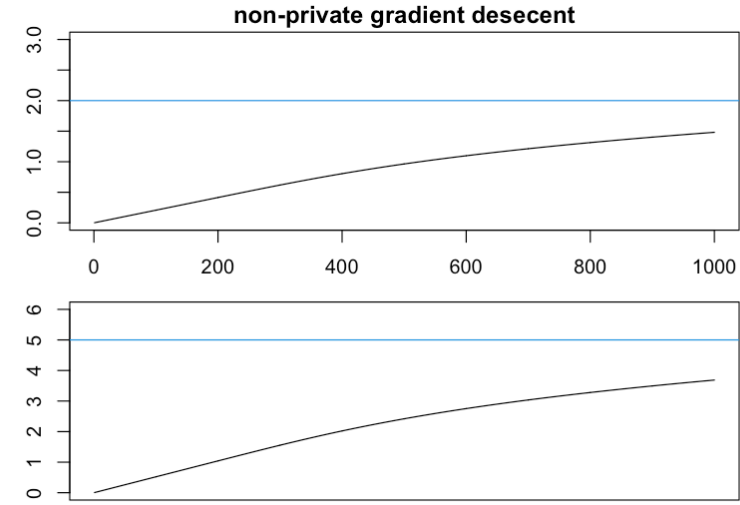
gradient and objective truncation: 1



gradient and objective truncation: 0.5



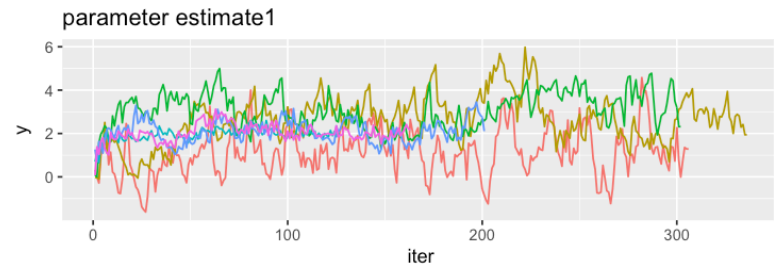
gradient and objective truncation: 0.1



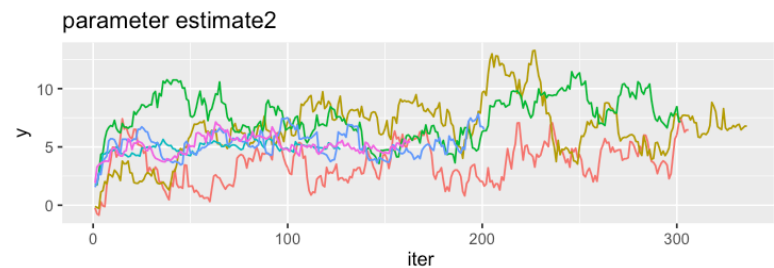
# Differentially private Gradient Descent

## Iteration vs Parameter estimates

gradient and objective truncation: 3



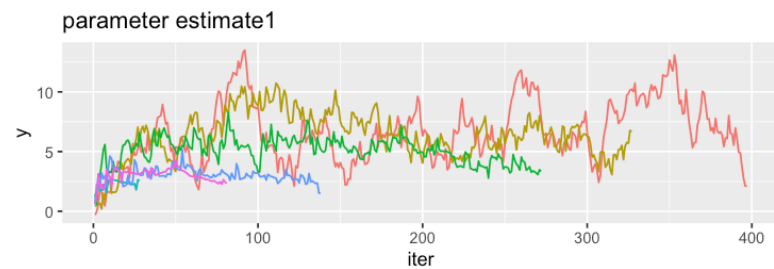
legend



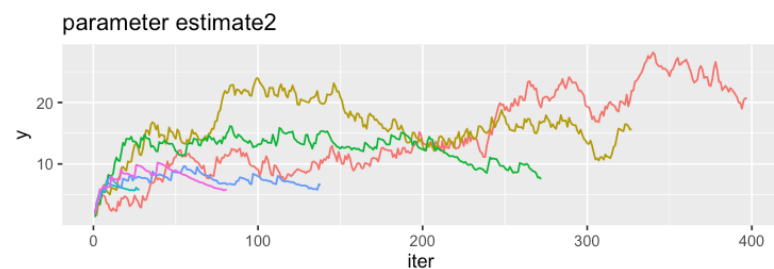
legend



gradient and objective truncation: 0.5



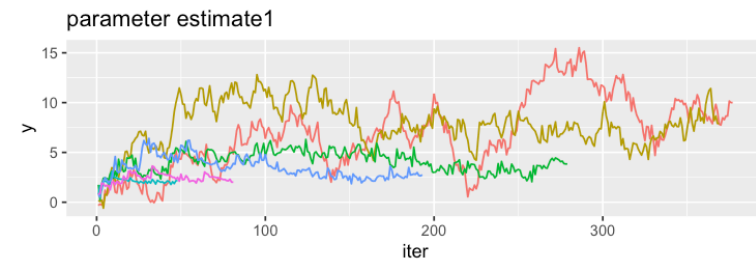
legend



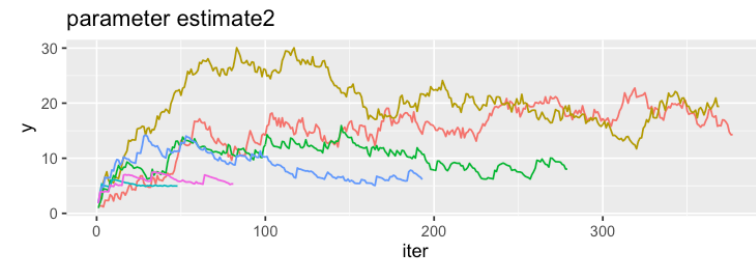
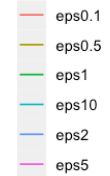
legend



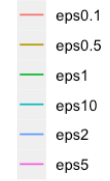
gradient and objective truncation: 1



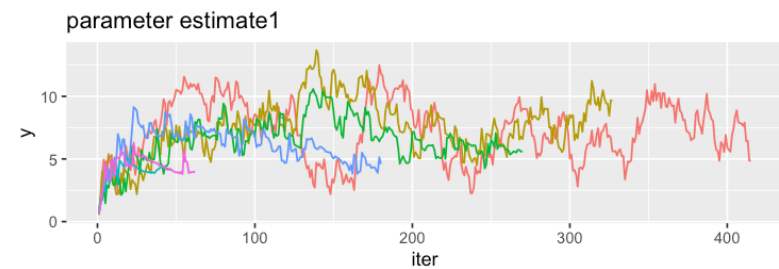
legend



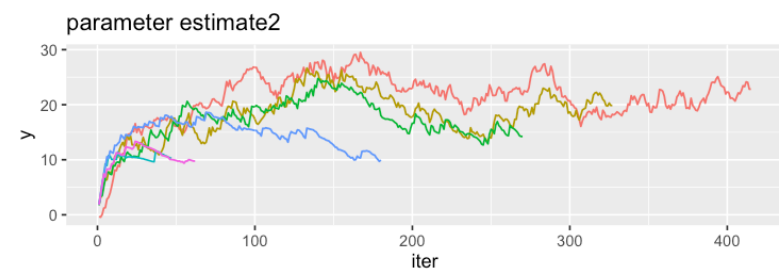
legend



gradient and objective truncation: 0.1



legend



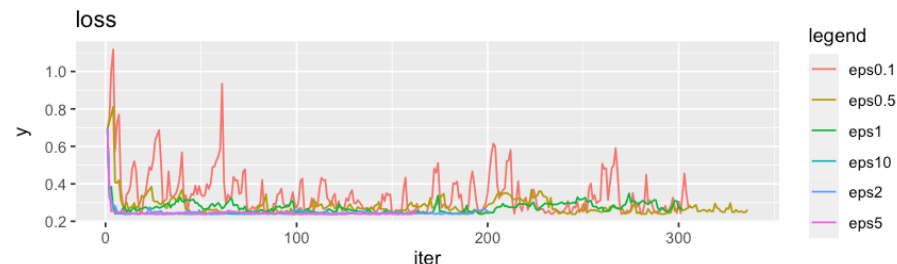
legend



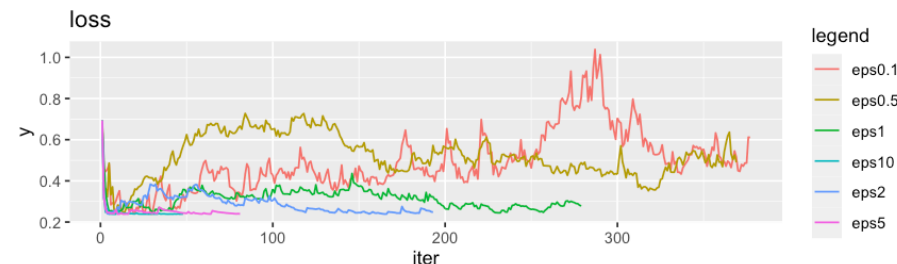
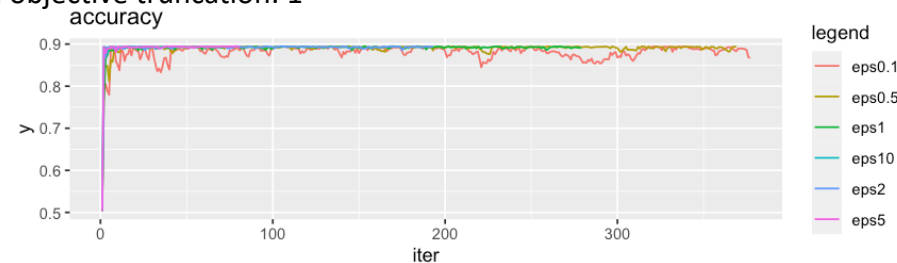
# Differentially private Gradient Descent

## Iteration vs Accuracy / Loss

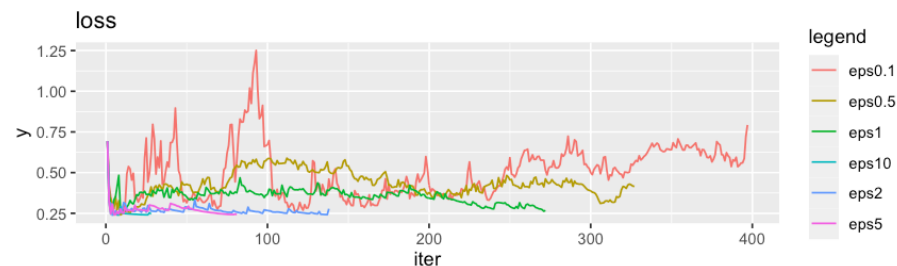
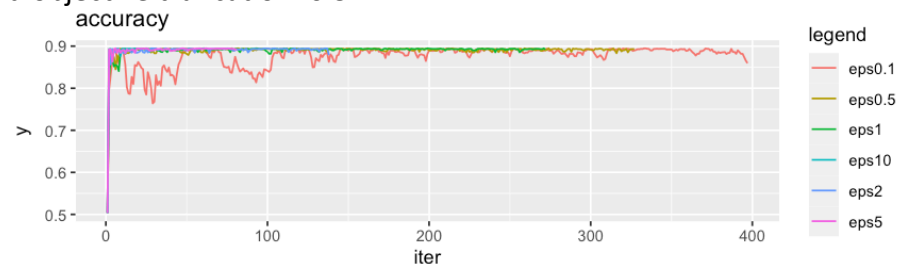
gradient and objective truncation: 3



gradient and objective truncation: 1



gradient and objective truncation: 0.5



gradient and objective truncation: 0.1

