

Exam 2 Question 3.

I found that, compare steepest descent method to the conjugate gradient method, conjugate gradient method require much less steps. This is because, conjugate ~~des~~ gradient method ~~choose~~ choose search directions that are orthogonal every step, which makes it more efficient than steepest descent.

Also, preconditioned methods can reduce the steps ~~down~~ significantly. However, the computation for each step is heavier as we are solving a matrix.