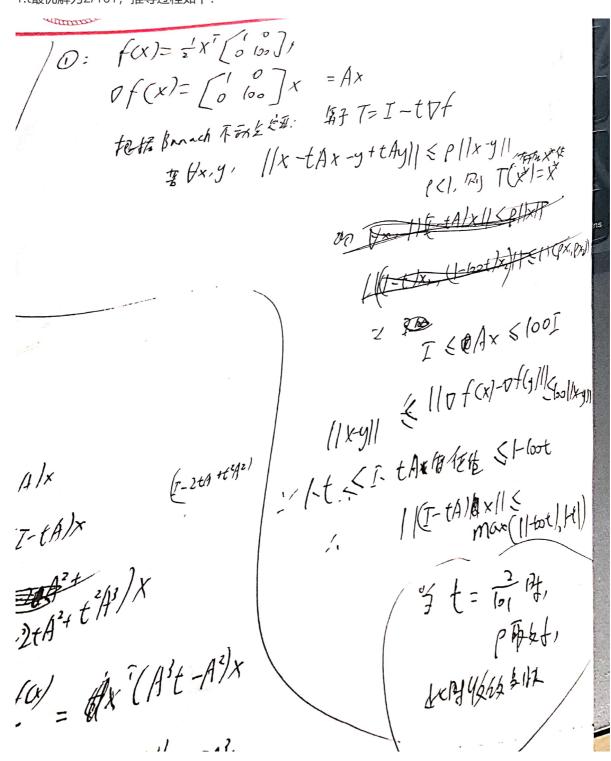
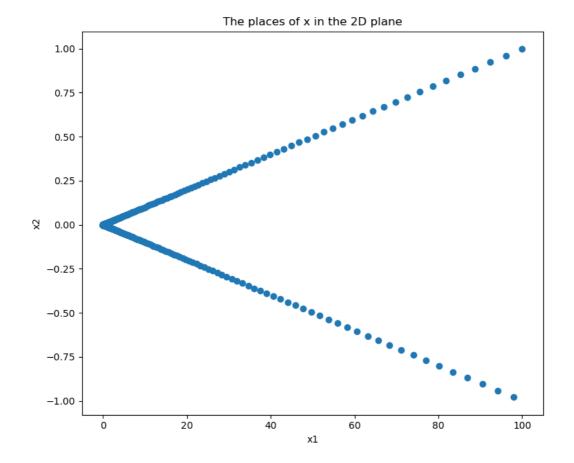
1.t最优解为2/101, 推导过程如下:

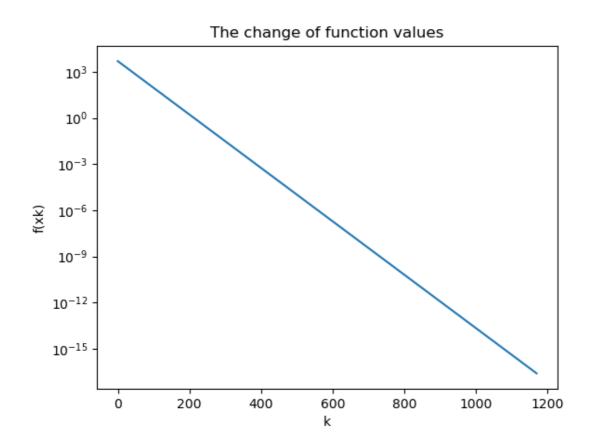


经过1170步迭代,最终收敛于x=(7.012241 * 10-09, -7.011969 * 10-11),此时 y=2.4831599683733593 * 10-17

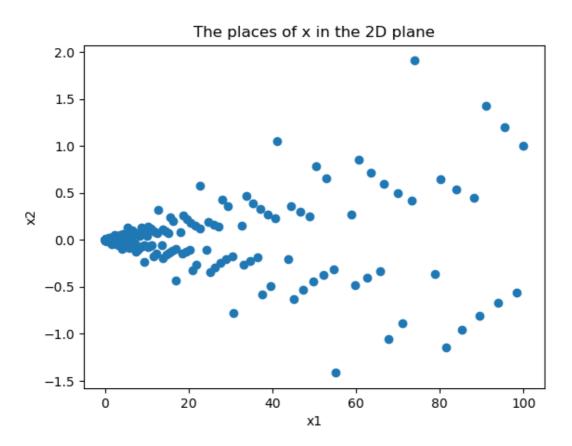
x的位置变化如下图:



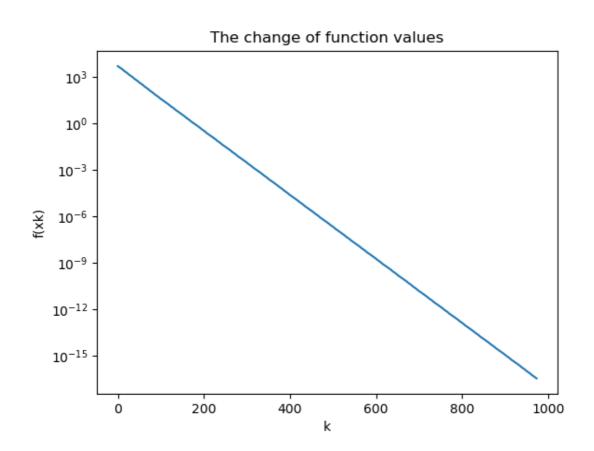
k-f(k)的示意图如下,说明f(k)-p*的值指数收敛:



x的位置变化如下图:

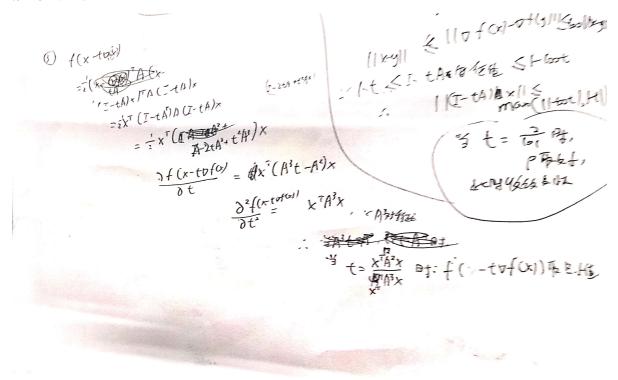


k-f(k)的示意图如下,说明f(k)-p*的值指数收敛:



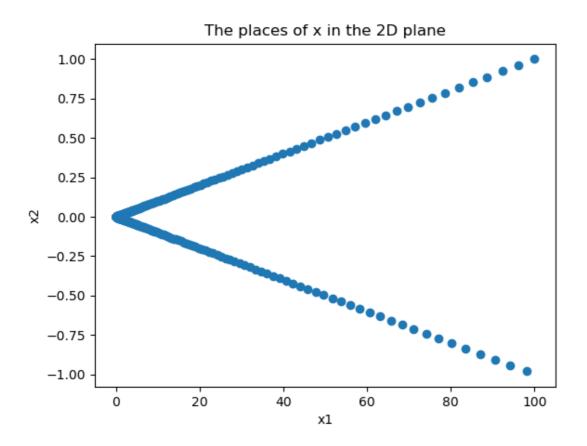
$$t = \frac{x^T A^2 x}{x^T A^3 x}$$

推导步骤如下:



经过1170步迭代,收敛于x=(7.0122335 * 10-09, -7.0122227 * 10-11),此时y=2.4831564942147865 * 10-17.

x的位置变化如下:



k-f(k)的示意图如下,说明f(k)-p*的值指数收敛:

The change of function values

