目录

[1、 线性规划 2](#_Toc530155357)

[1.2、基本概念和定理 2](#_Toc530155358)

[1.4、单纯形法 4](#_Toc530155359)

[1.6、对偶规划 4](#_Toc530155360)

[1.8、对偶单纯形 4](#_Toc530155361)

[1.9、灵敏度分析 6](#_Toc530155362)

[1.10、产销平衡运输问题 11](#_Toc530155363)

[3、非线性规划 14](#_Toc530155364)

[3.3、一维搜索 14](#_Toc530155365)

[3.4、无约束优化 16](#_Toc530155366)

[3.4.1、最速下降 16](#_Toc530155367)

[3.4.2、共轭梯度下降 18](#_Toc530155368)

[3.6、K-T+内外点法 21](#_Toc530155369)

[3.6.1、K-T条件 21](#_Toc530155370)

[3.6.2、外点法 22](#_Toc530155371)

[3.6.3、内点法 23](#_Toc530155372)

[4、多目标规划 24](#_Toc530155373)

[5、动态规划 26](#_Toc530155374)

[5.2、投资分配 26](#_Toc530155375)

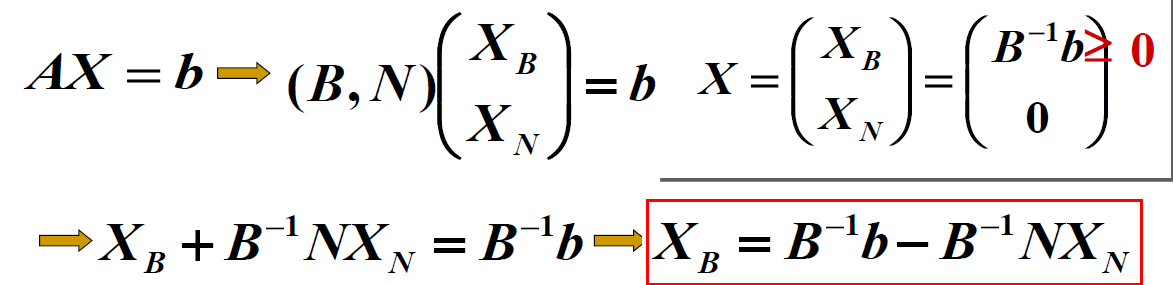
[5.3、一维背包问题 27](#_Toc530155376)

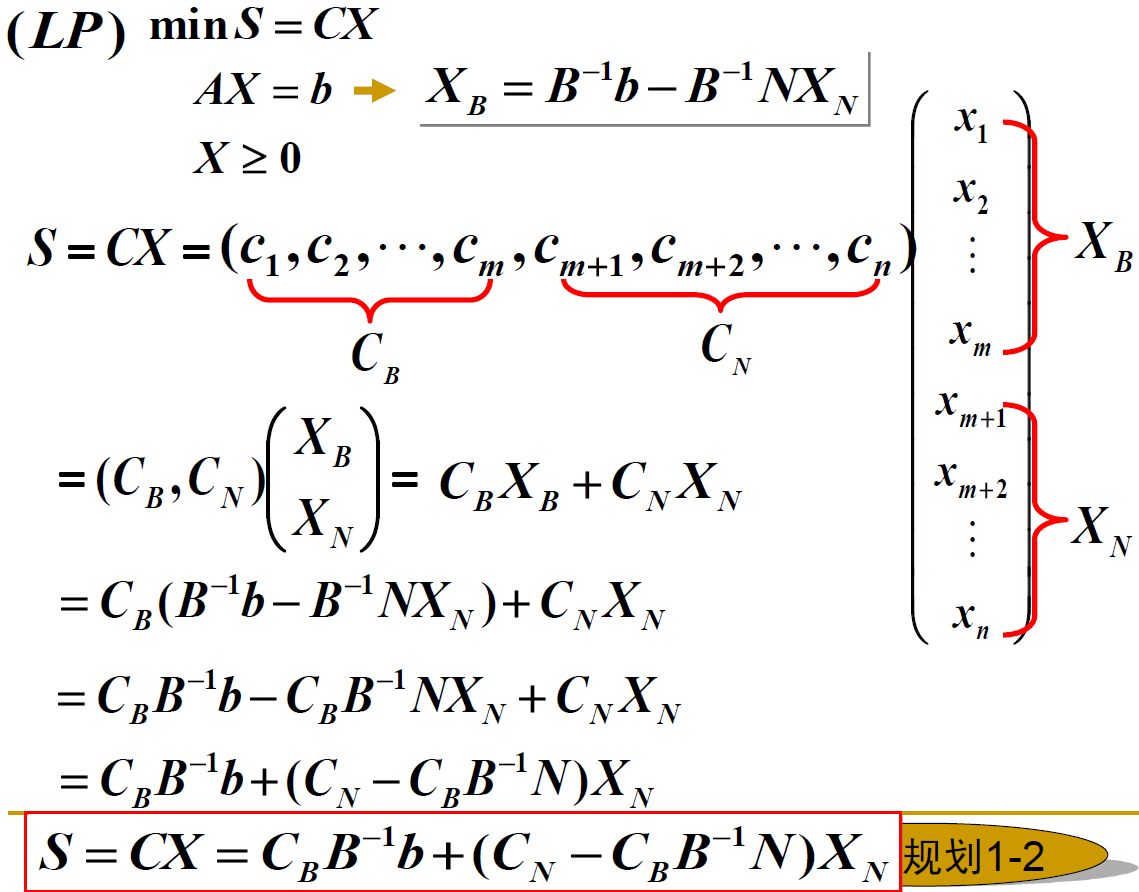
[5.4、二位背包问题 28](#_Toc530155377)

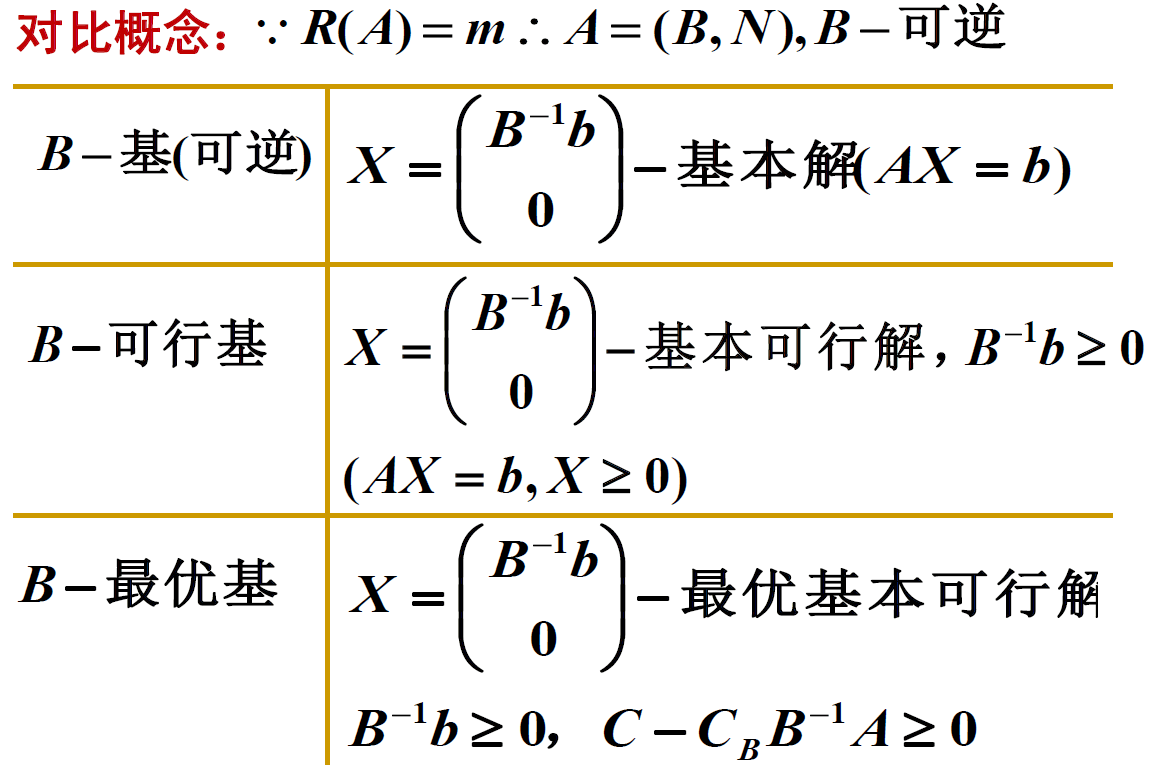
[6、作业截图 28](#_Toc530155378)

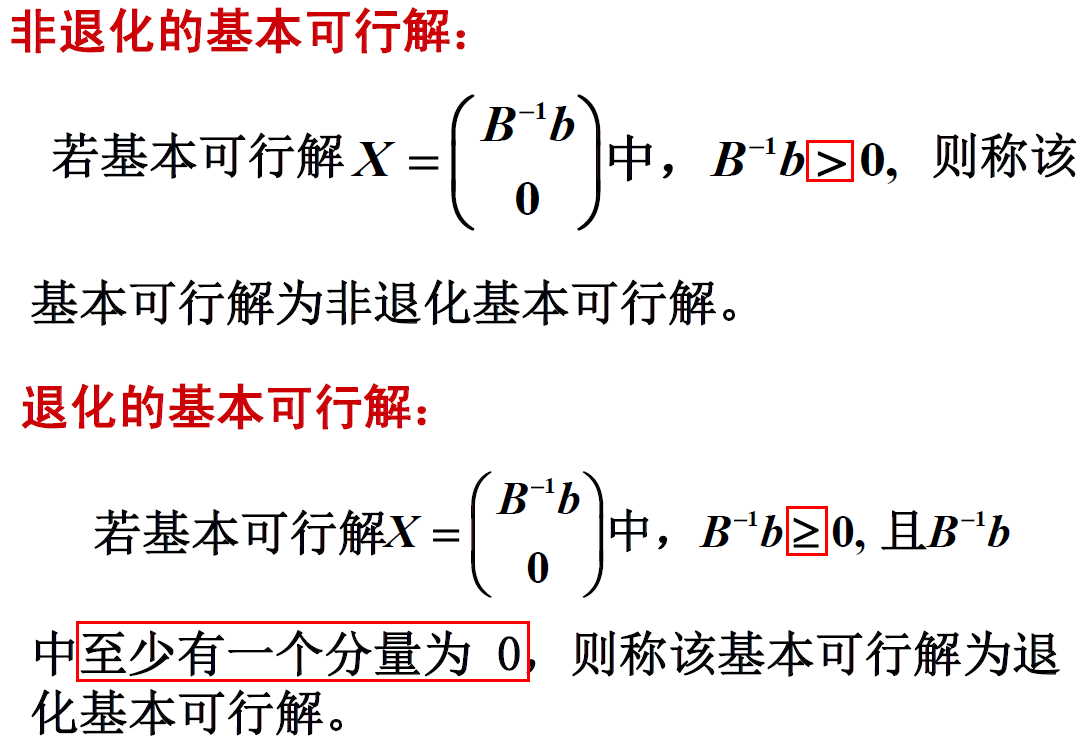
# 线性规划

## 1.2、基本概念和定理

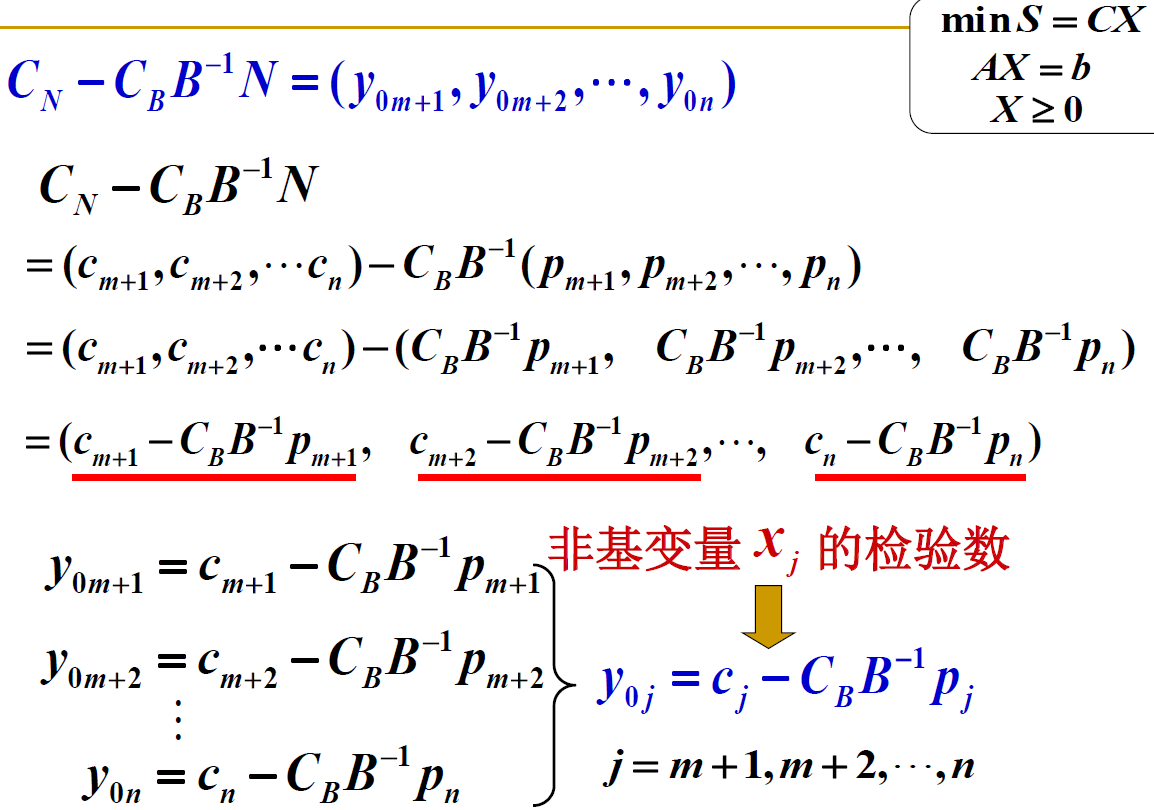




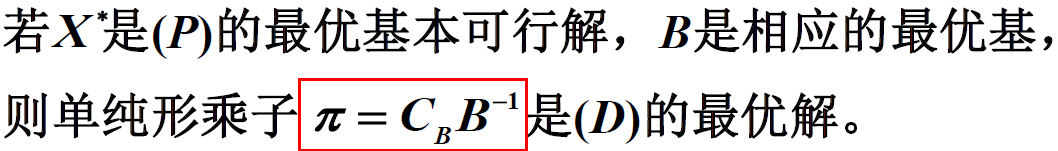




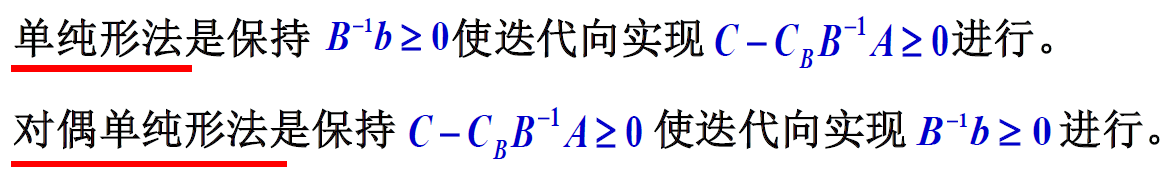
## 1.4、单纯形法

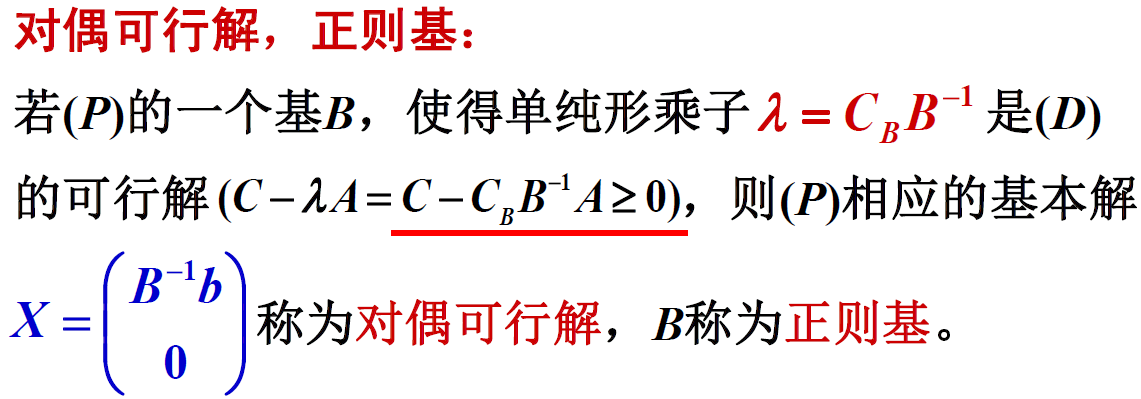


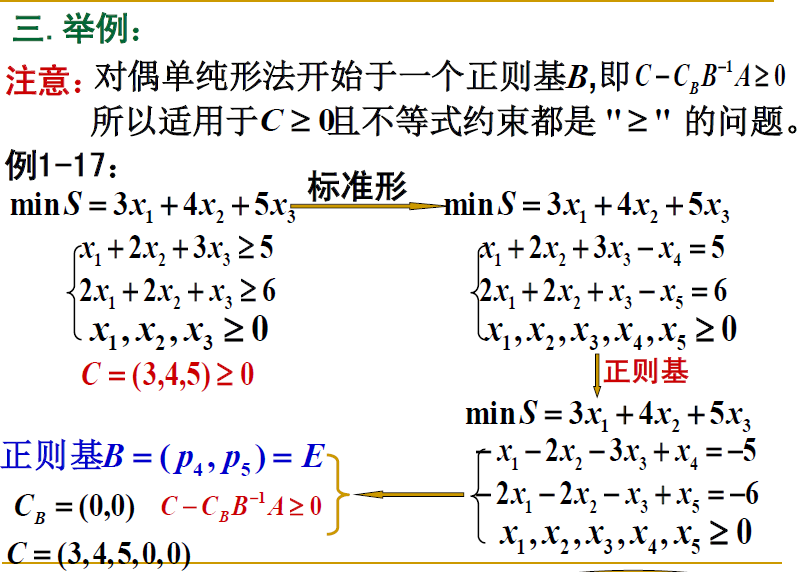
## 1.6、对偶规划

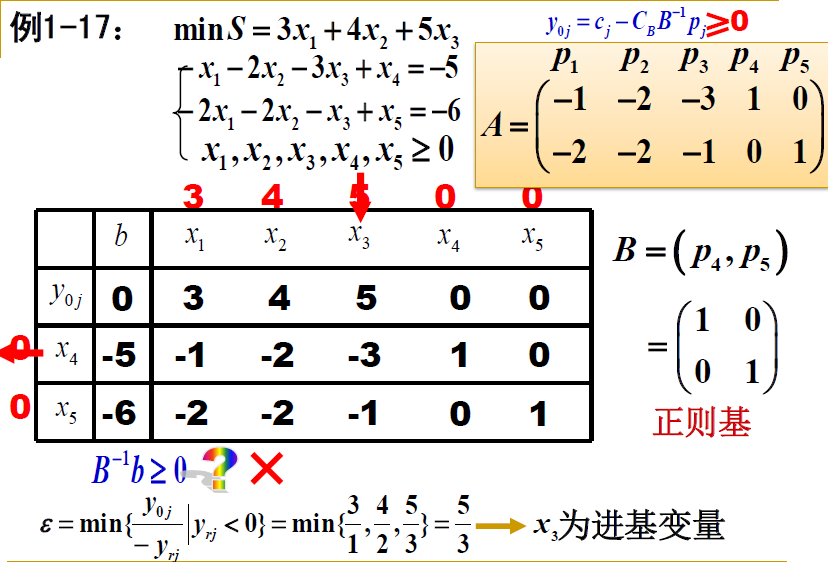


## 1.8、对偶单纯形

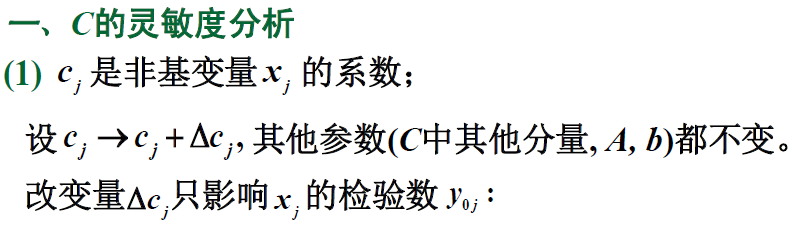


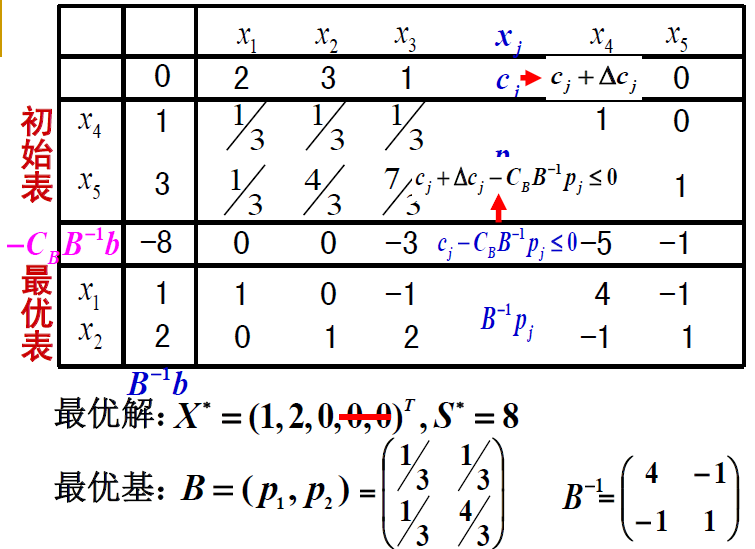


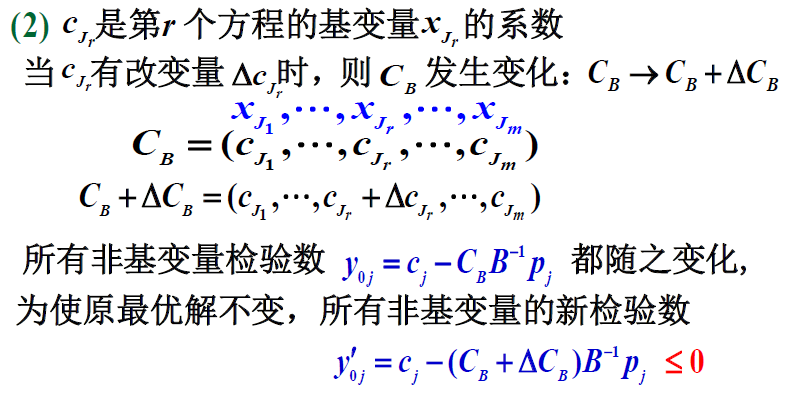


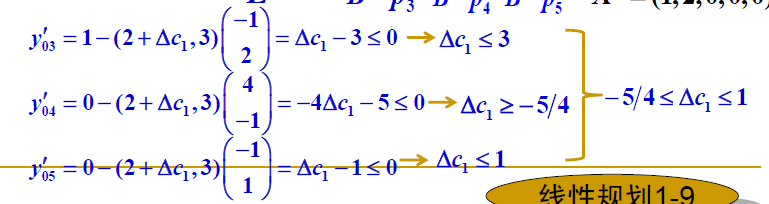


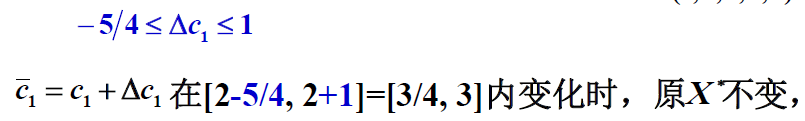
## 1.9、灵敏度分析

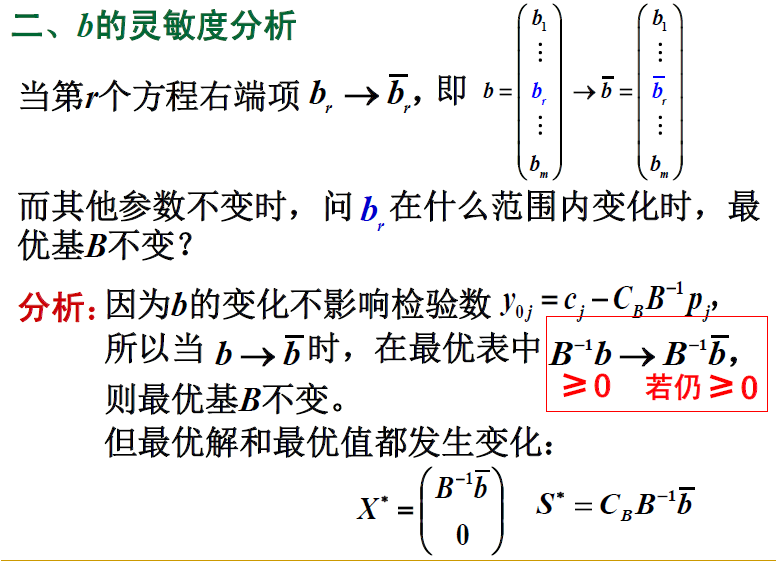


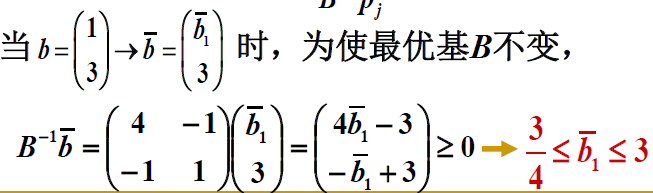


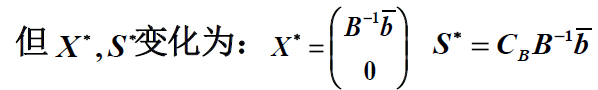


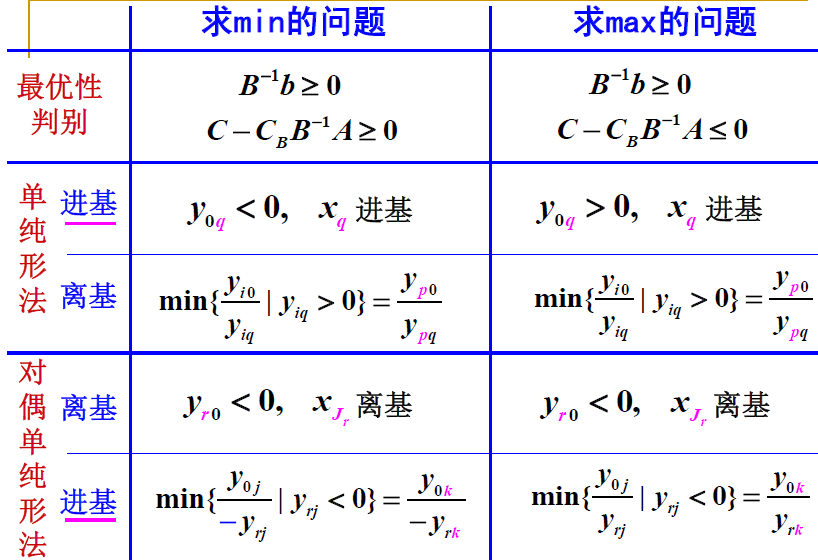


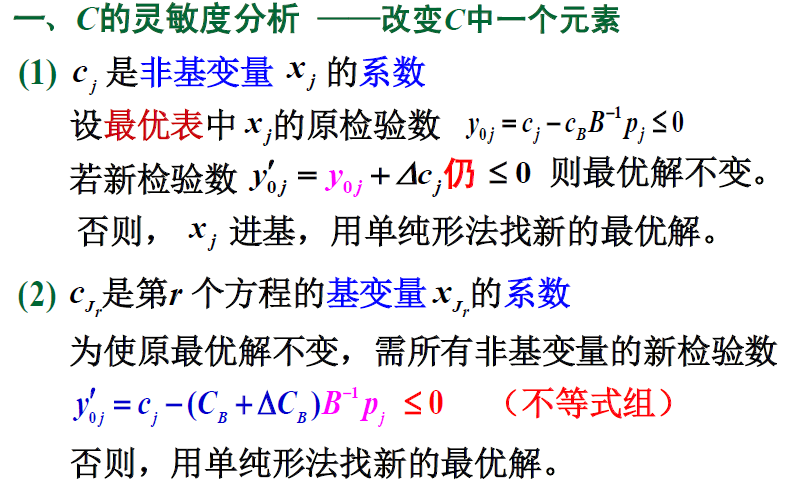


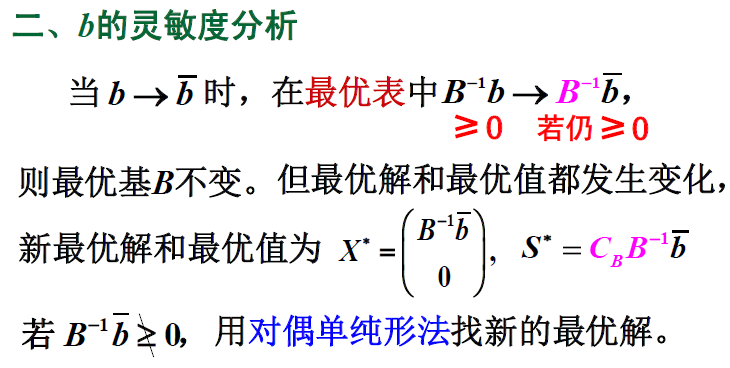


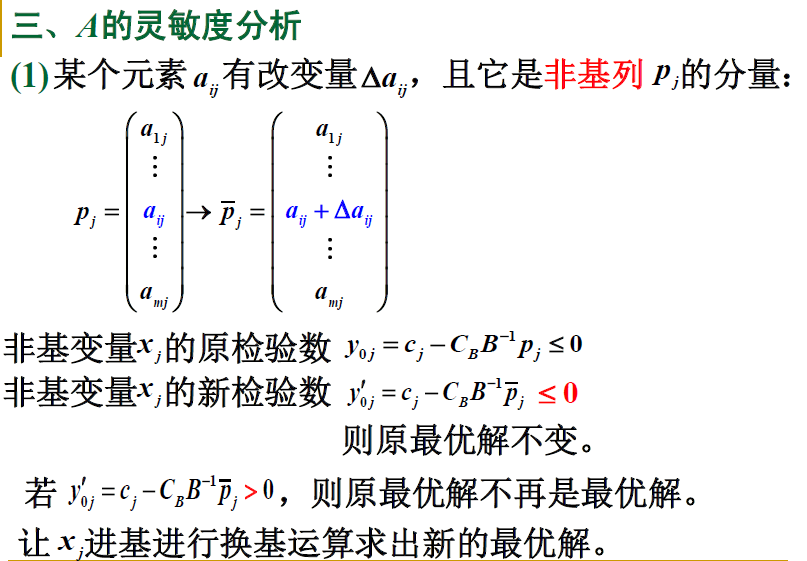


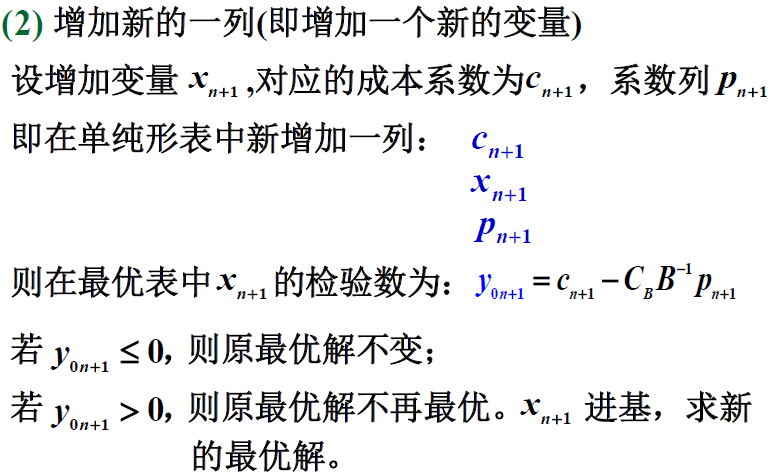


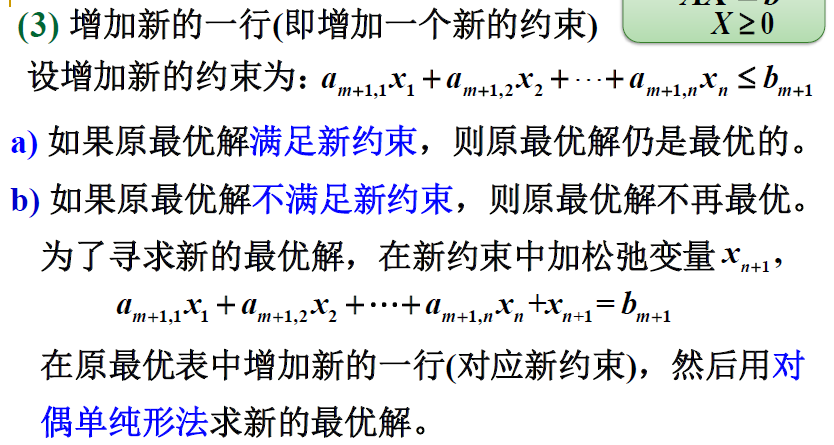






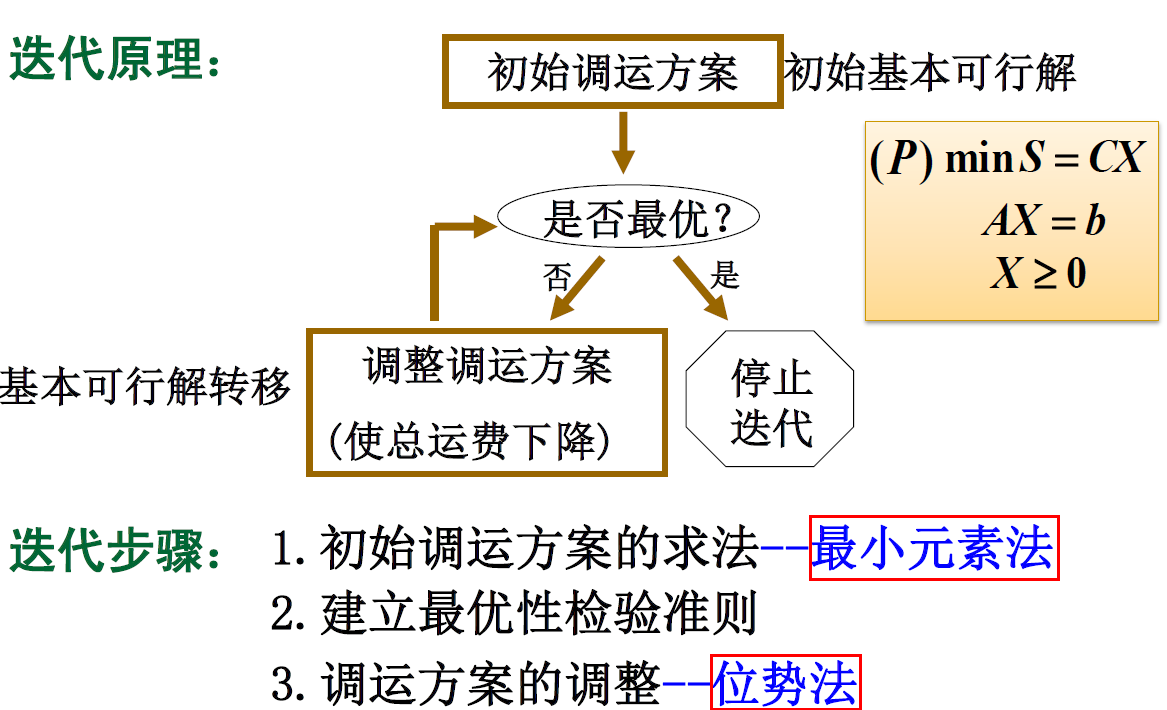




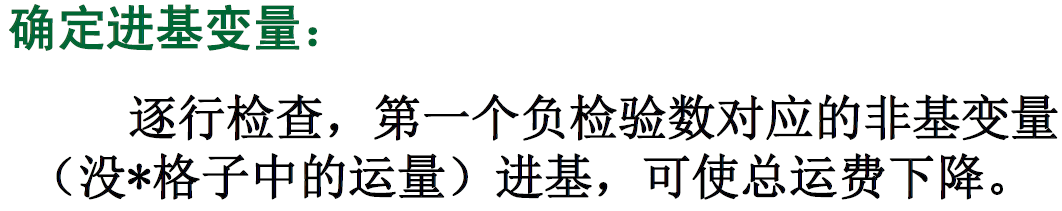


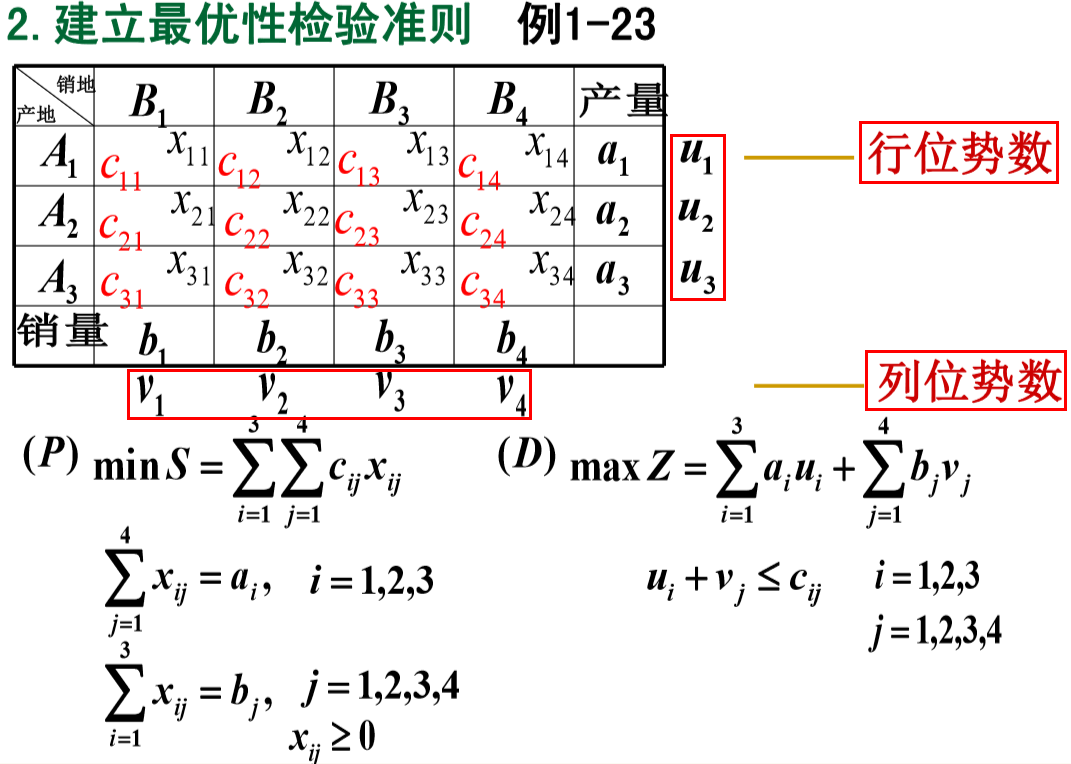
## 1.10、产销平衡运输问题

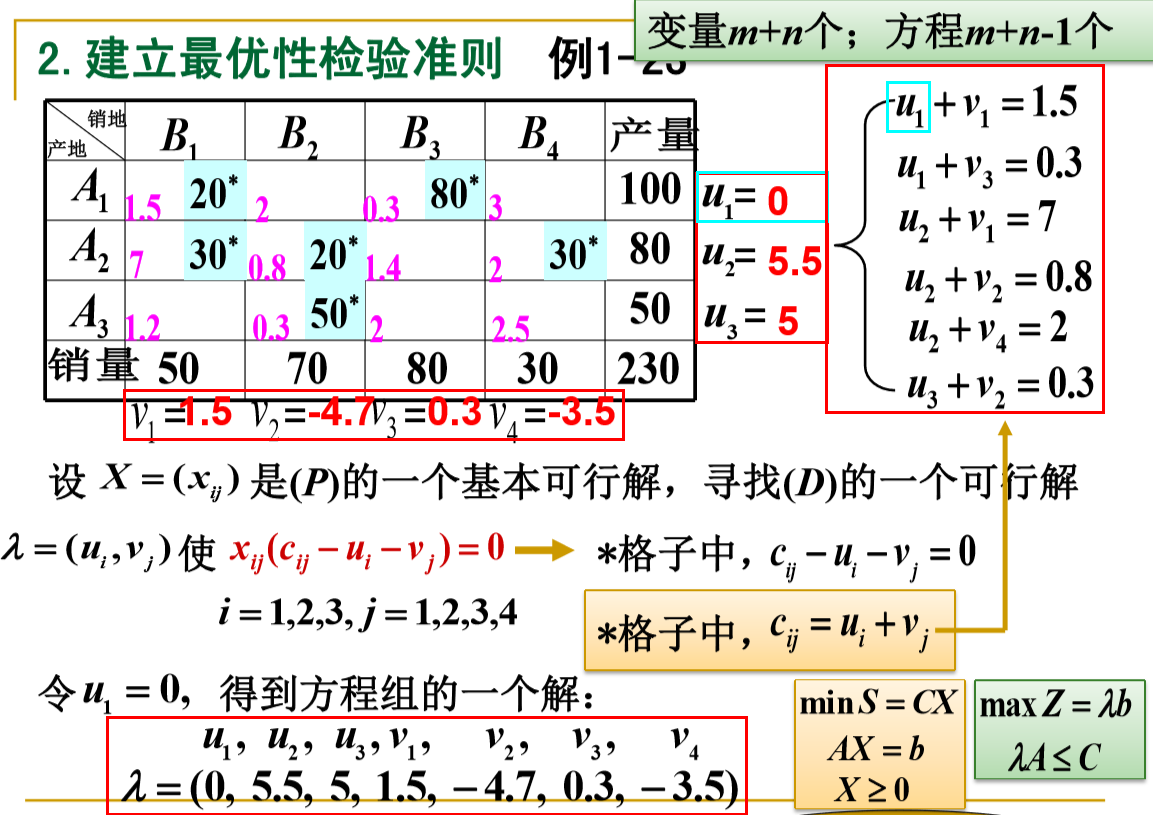


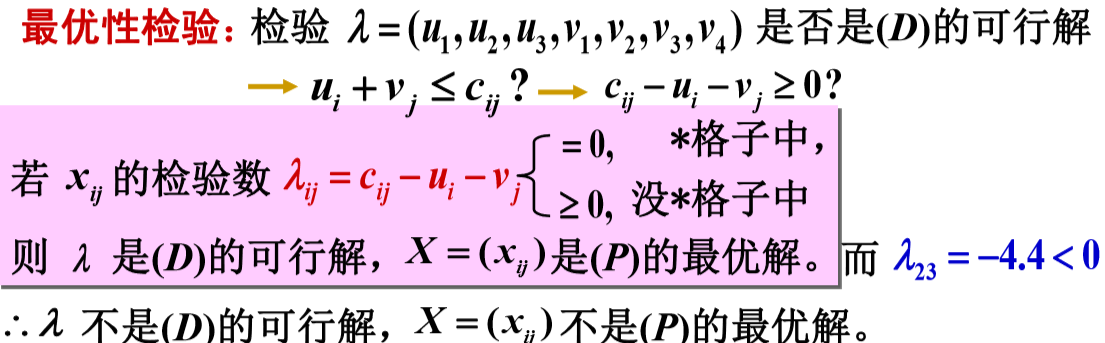










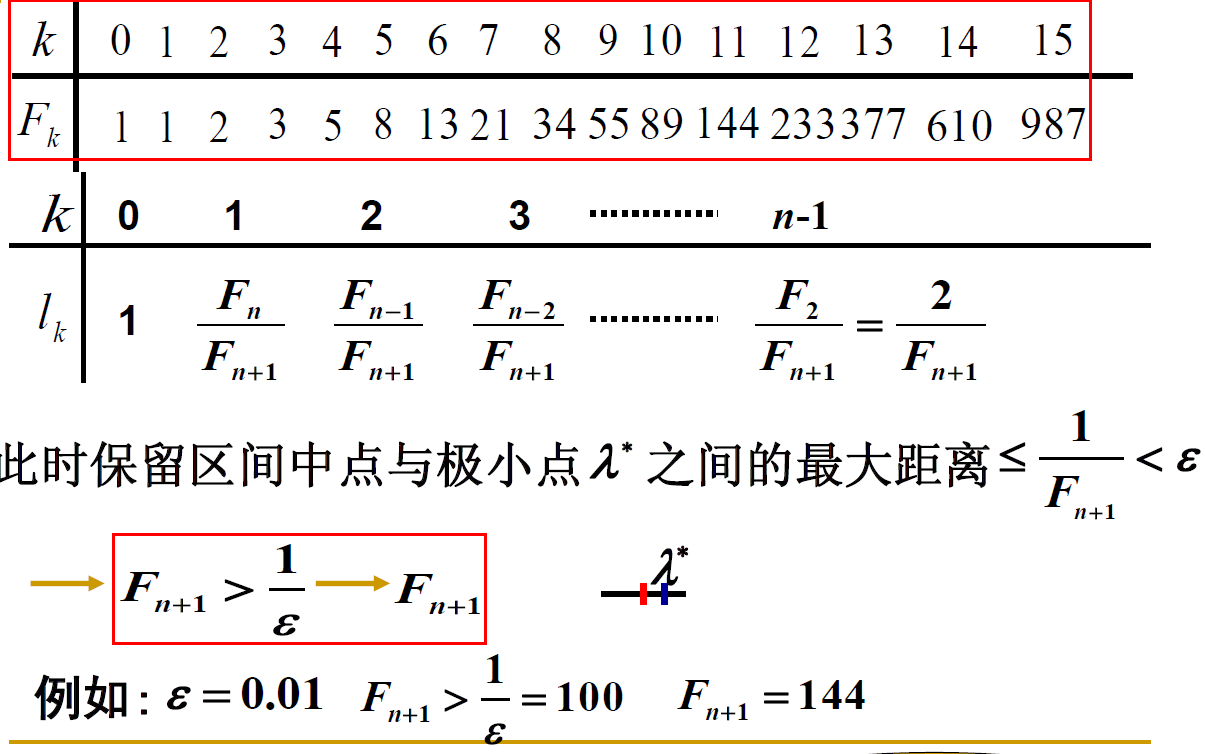


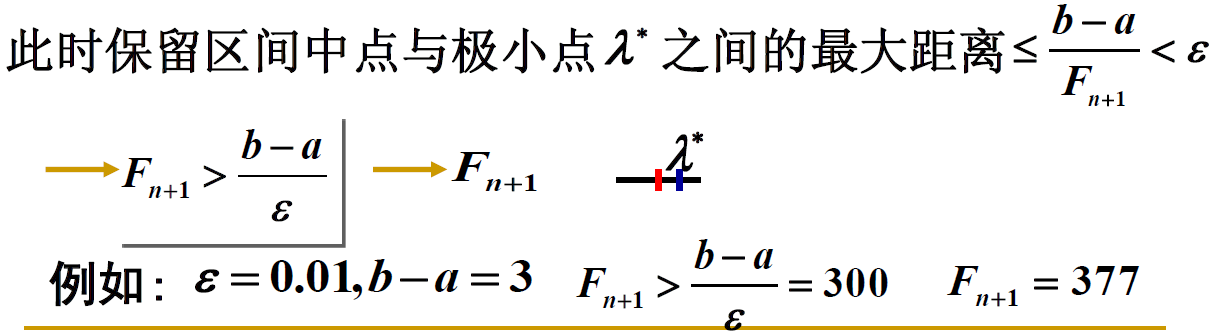


# 3、非线性规划

## 3.3、一维搜索

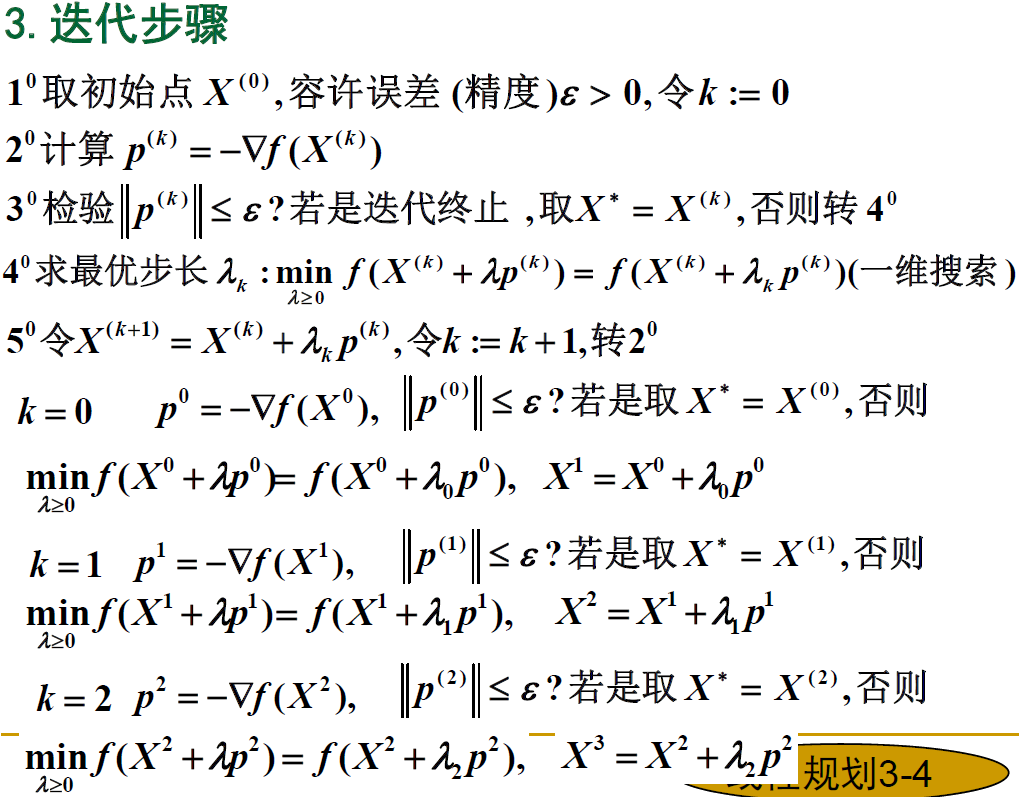


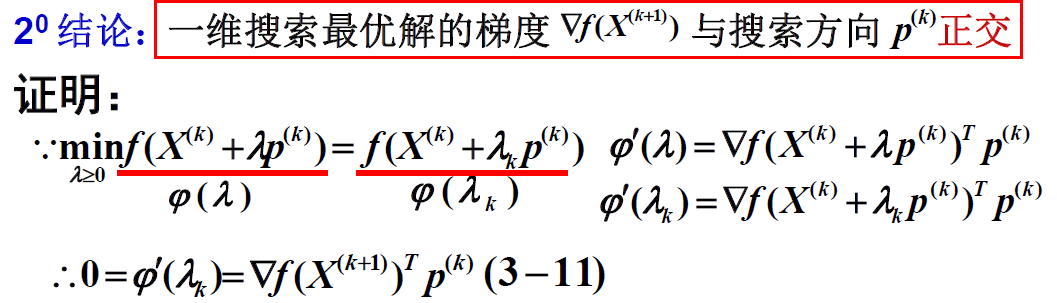


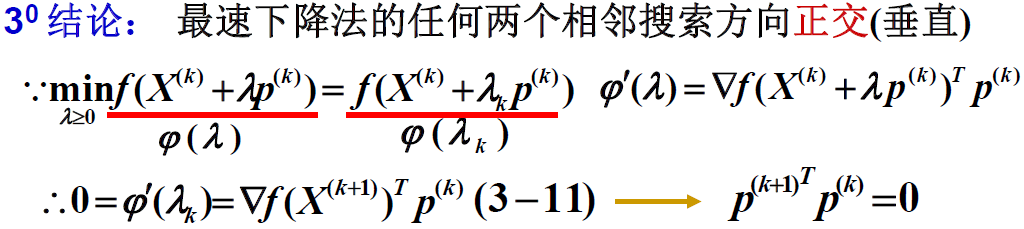


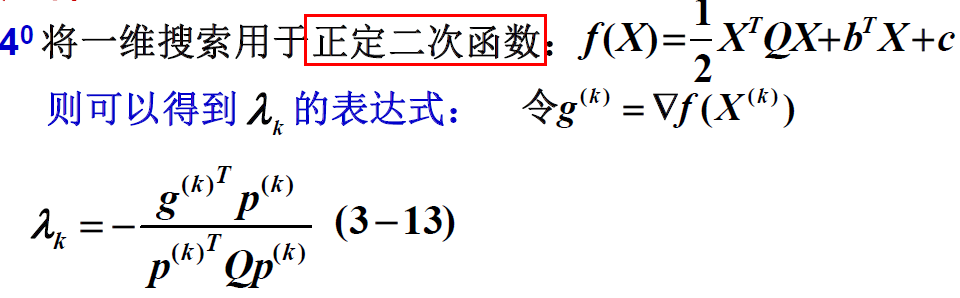
## 3.4、无约束优化

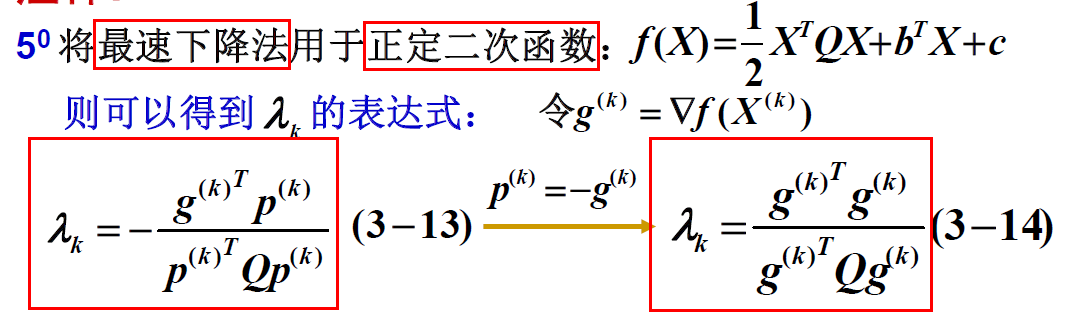
### 3.4.1、最速下降

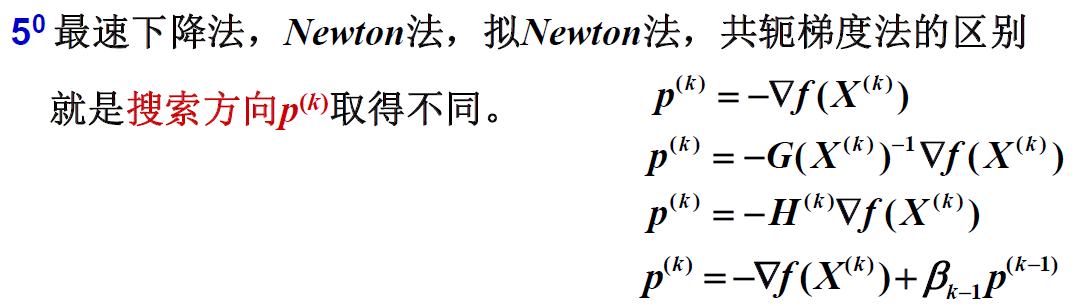






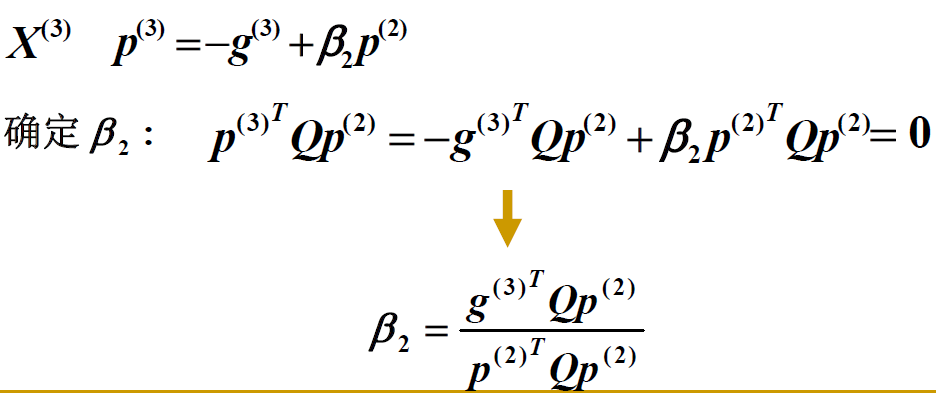


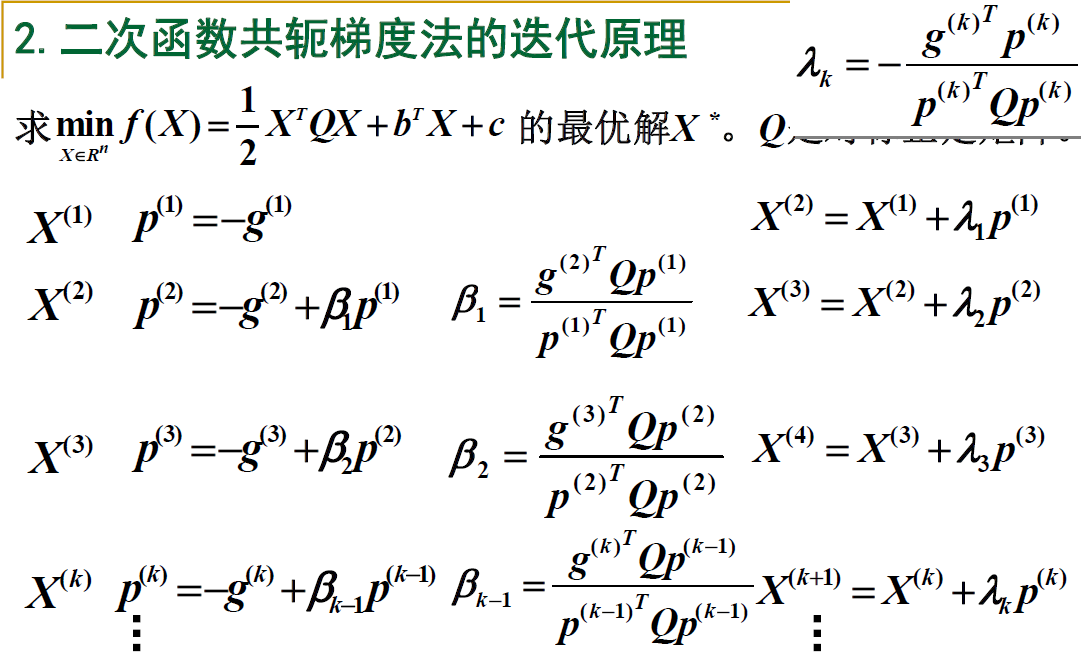




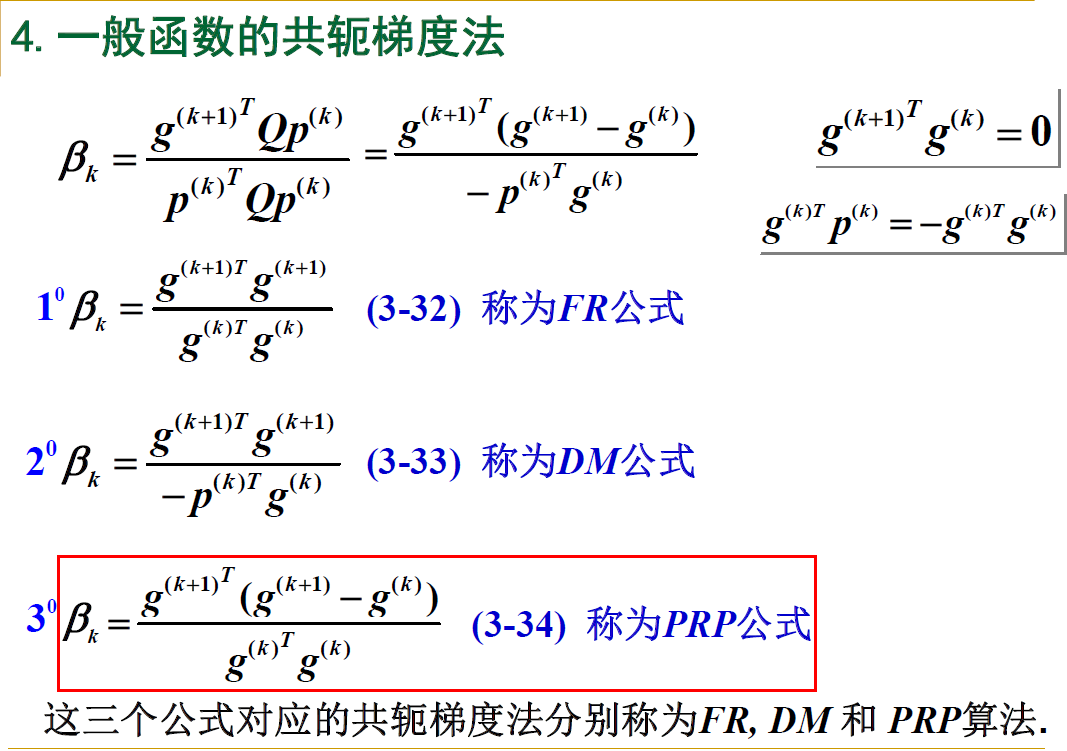
### 3.4.2、共轭梯度下降

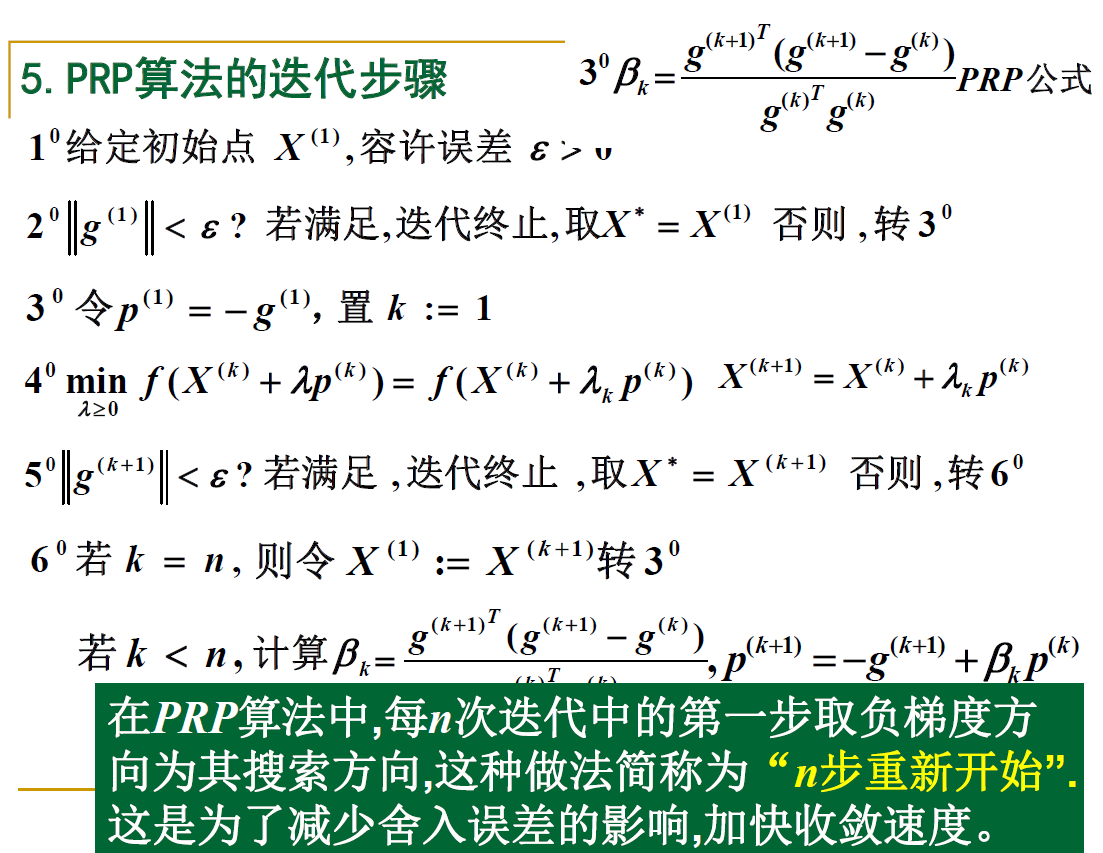






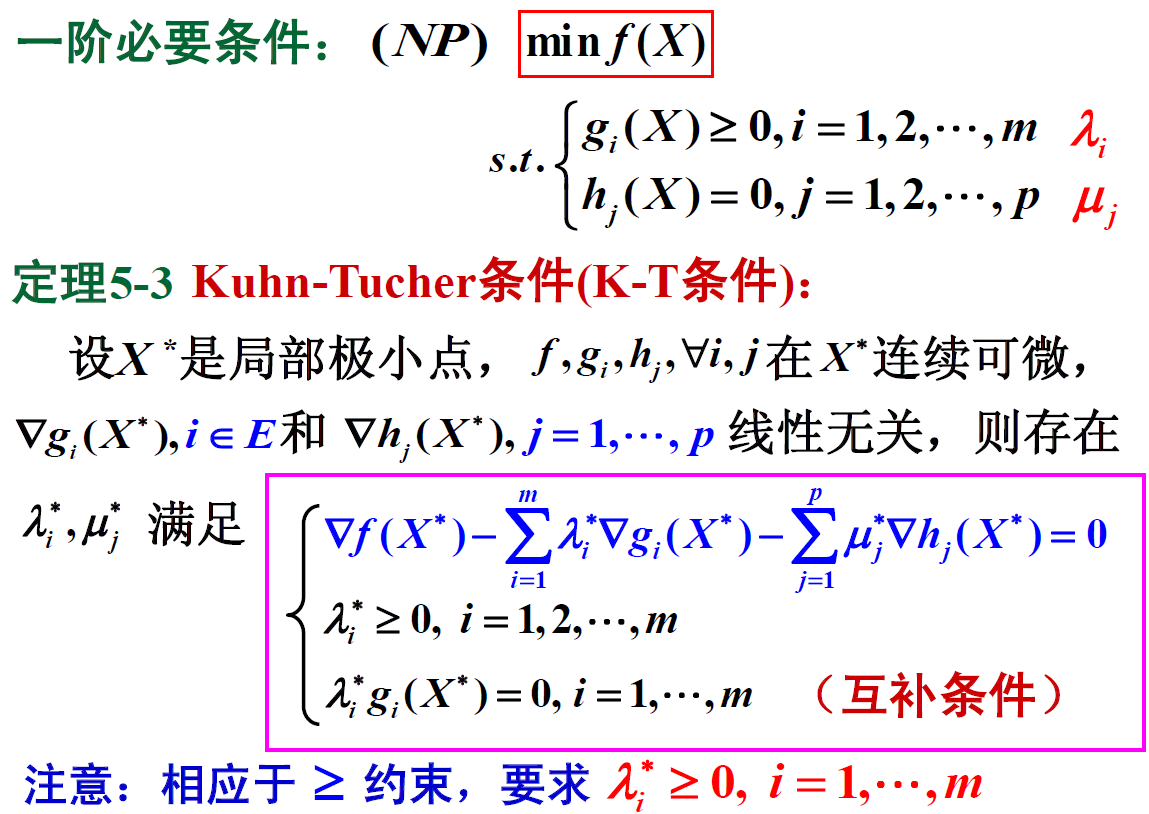


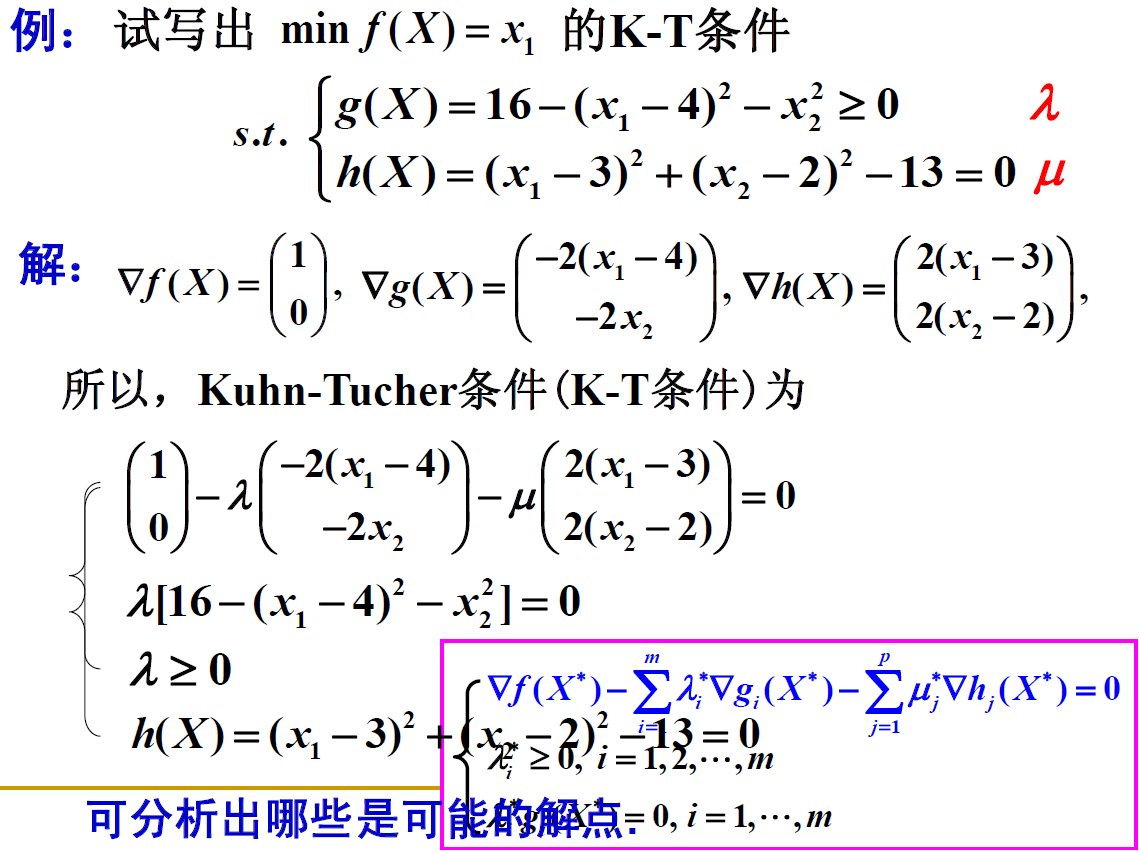




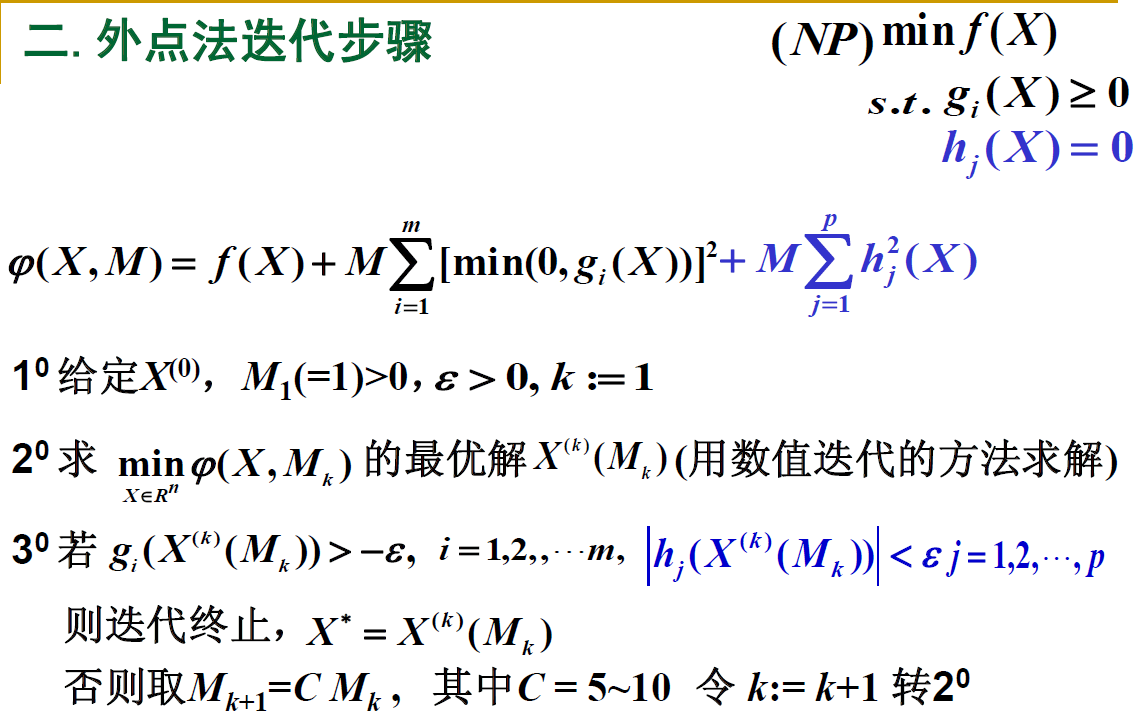
## 3.6、K-T+内外点法

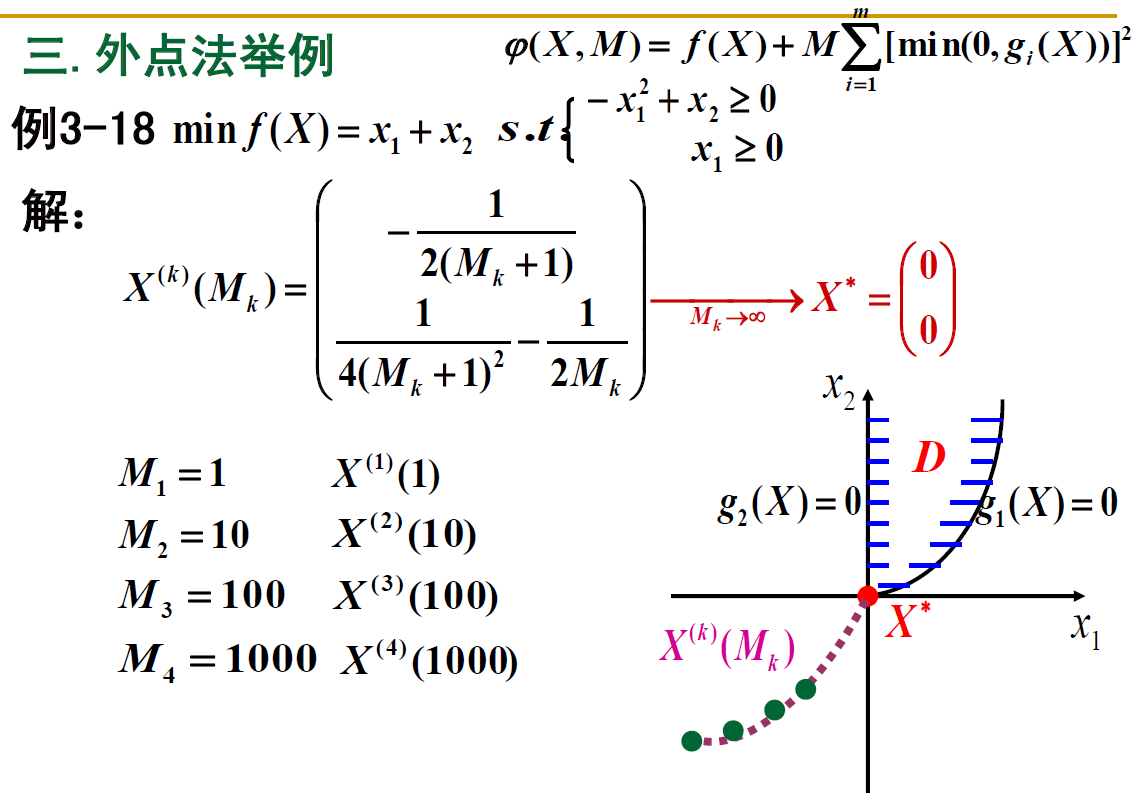
### 3.6.1、K-T条件



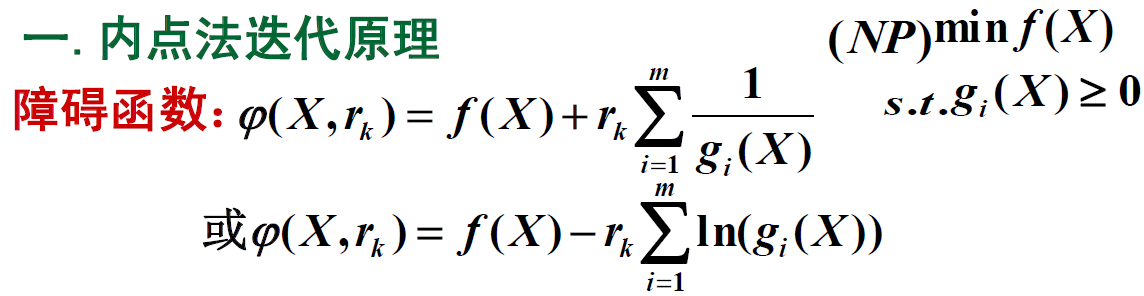


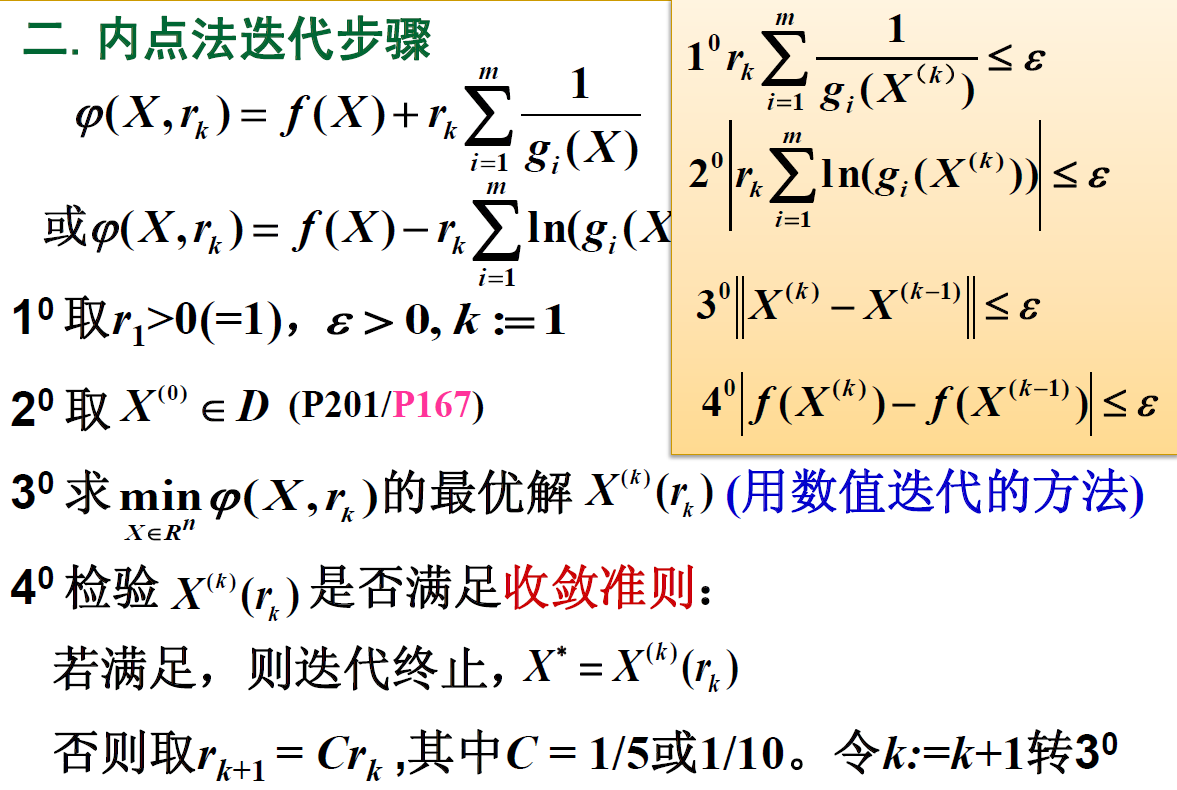
### 3.6.2、外点法

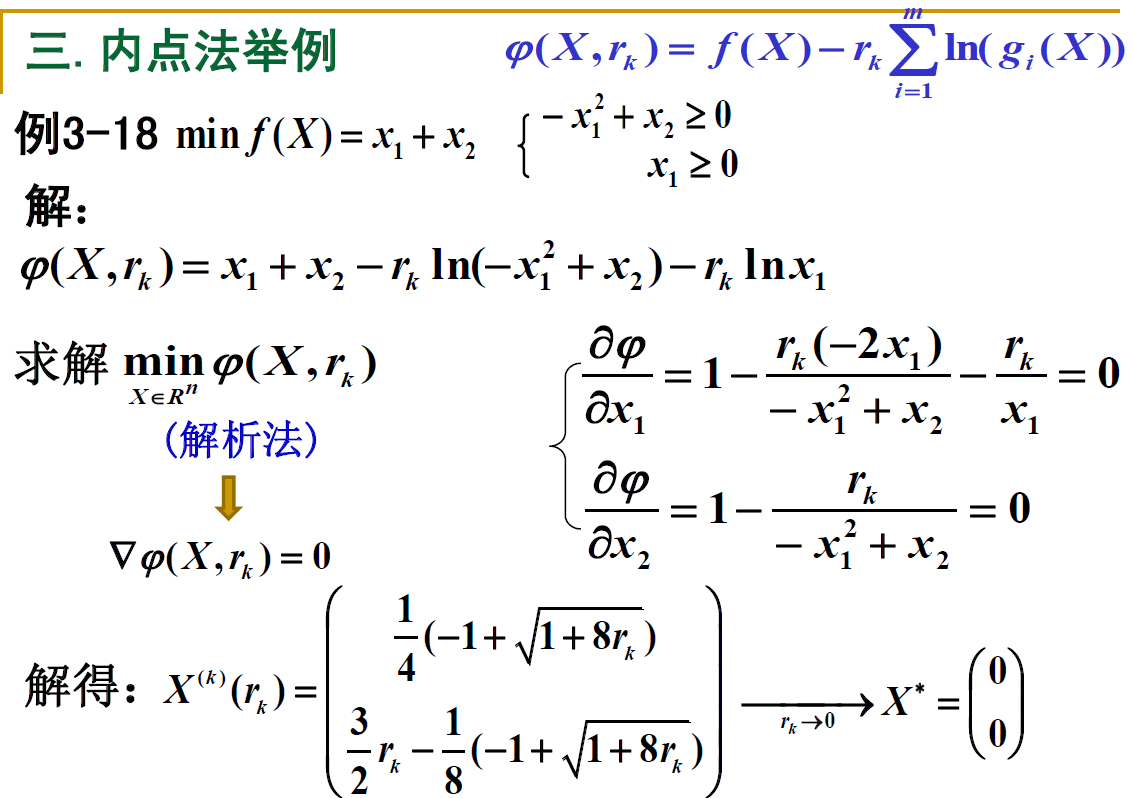




### 3.6.3、内点法

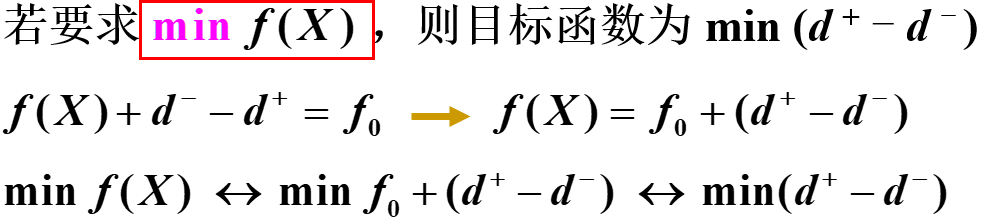


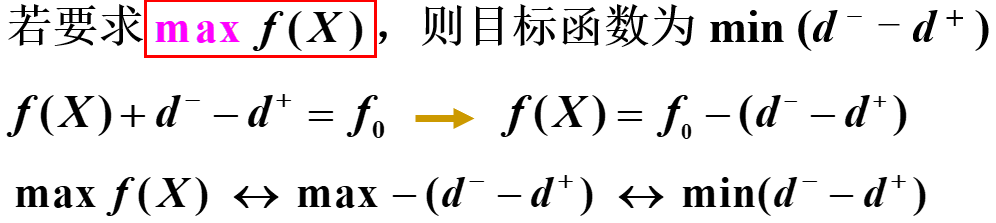


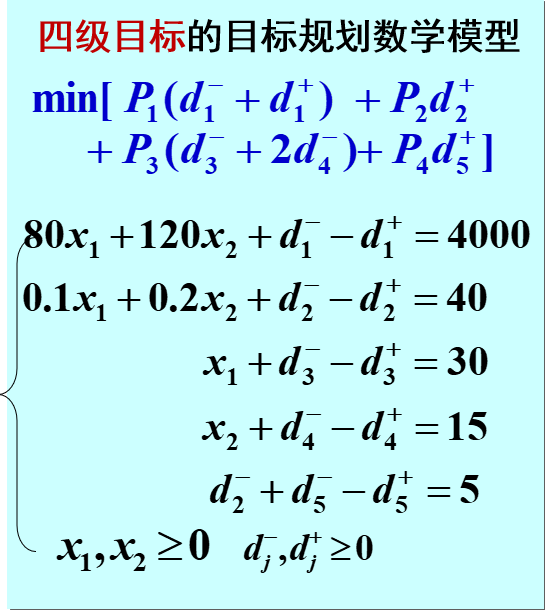


# 4、多目标规划

**达到 == 等于**







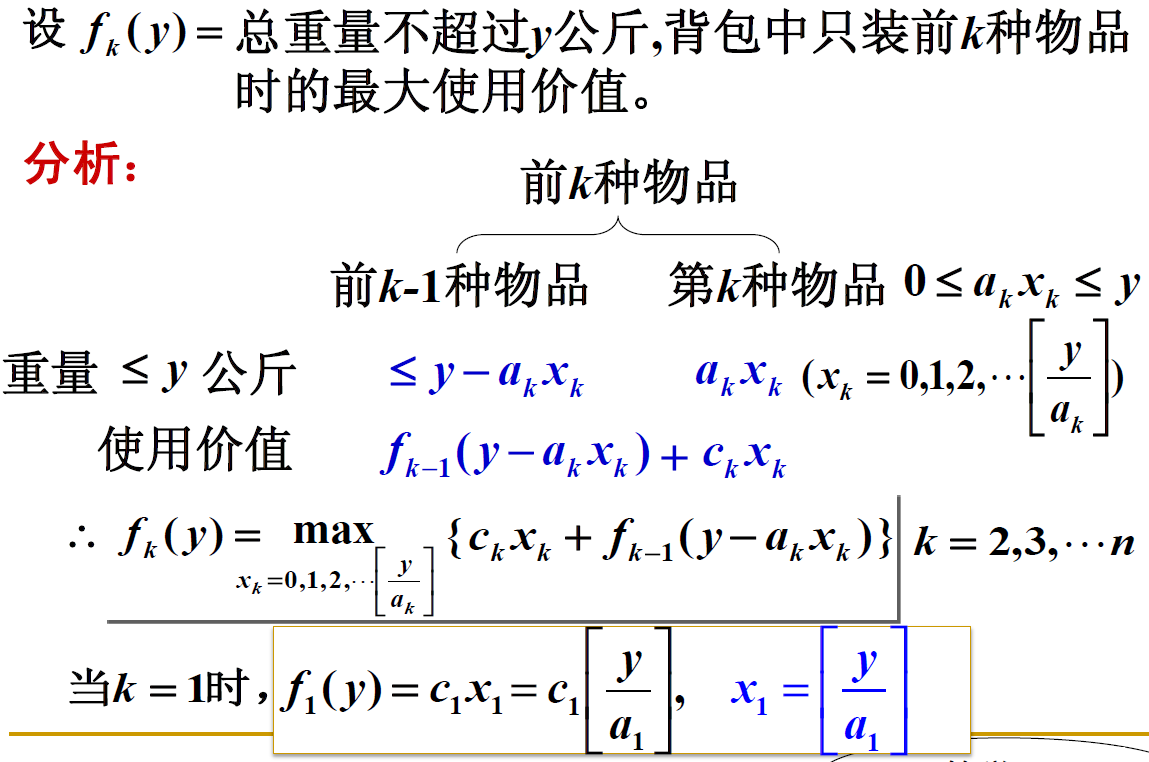
# 5、动态规划

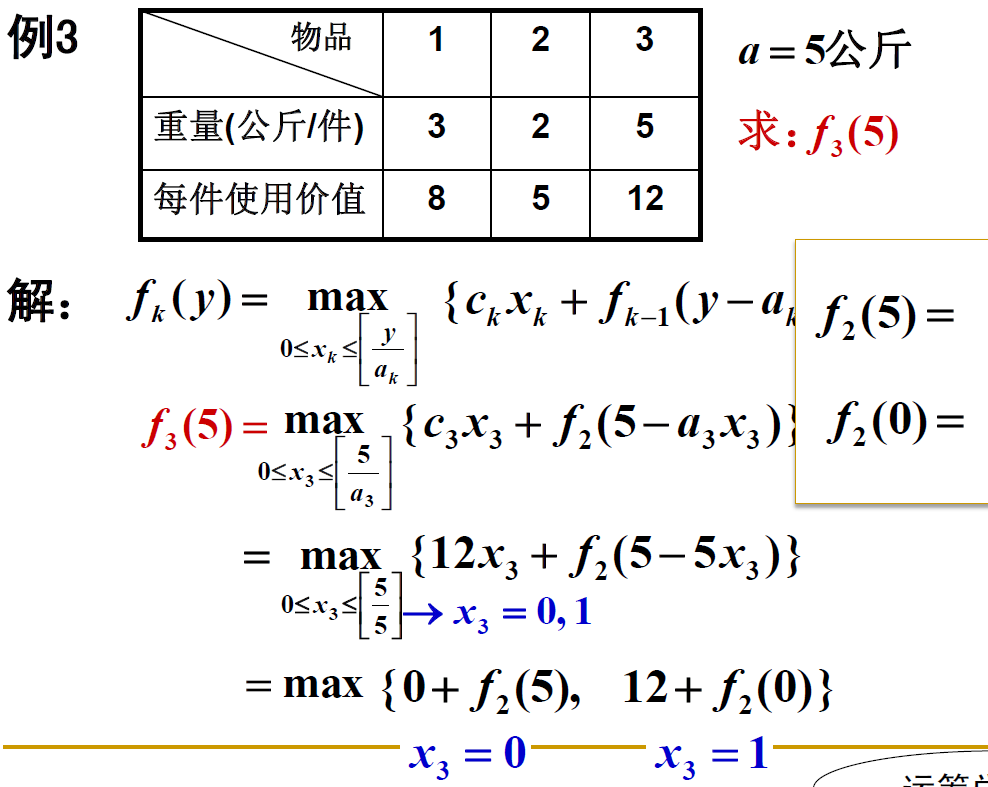
## 5.2、投资分配



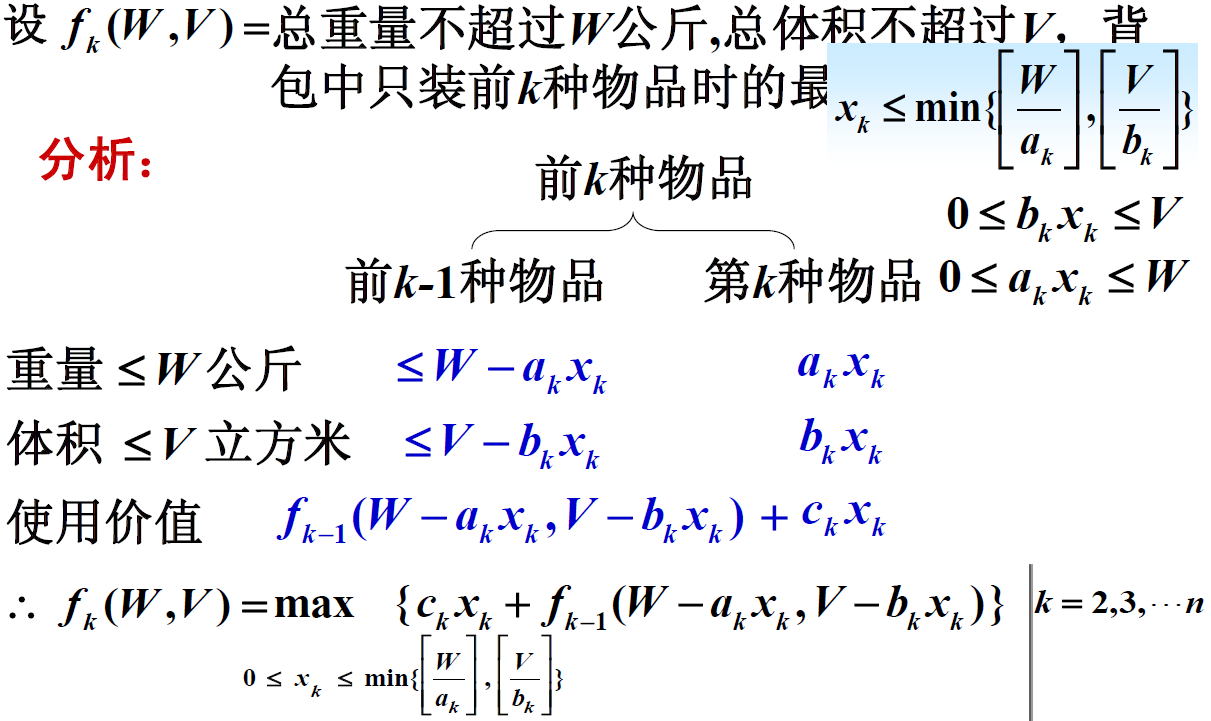


## 5.3、一维背包问题





## 5.4、二位背包问题



# 6、作业截图

