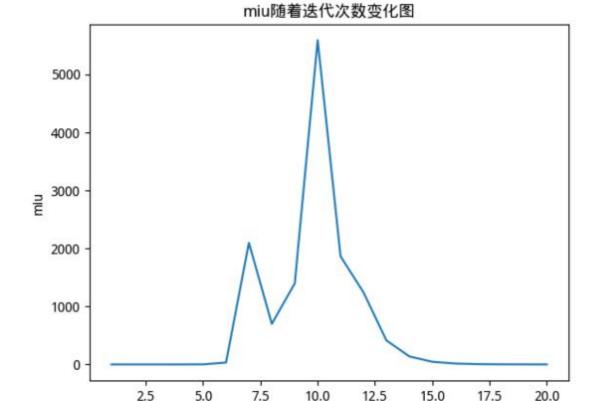
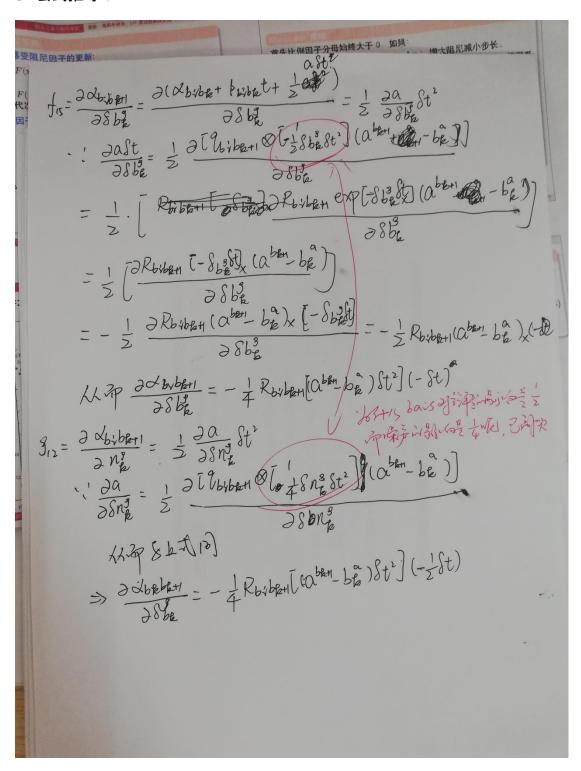
```
import numpy as np
import matplotlib.pyplot as plt
plt.rcParams['font.sans-serif'] = ['Droid Sans
Fallback']#设置中文字体
plt.rcParams['axes.unicode minus']=False #正确显示负
tmp = range(1, 21)
x = np.array(tmp)
print(x)
y = np.loadtxt('lambda.txt', unpack=True, dtype=float,
usecols=0)
##plt.scatter(x, y, s=0.5, c='r', alpha=1)
plt.plot(x,y)
plt.title('miu 随着迭代次数变化图')
plt.xlabel('iter')
plt.ylabel('miu')
plt.show()
```



Iter

3. 公式推导:



4. 证明:

構造 $\Delta \times \ell_{m} = -\frac{\Sigma}{j=1} \frac{\sqrt{j}F'T}{2j+\mu L}$ $-(FTJ)^{T} = -(F')^{T}$ $\Rightarrow \Delta \times \ell_{m} = (J^{T}J+\mu L)^{-1}(-F'T)$ $\Rightarrow \Delta \times \ell_{m} = (J^{T}J+\mu L)^{-1}(-F'T)$ $\Rightarrow J^{T}J$ 进行 程位值分析 : $J^{T}J = \sum_{j=1}^{N} \frac{\lambda_{j}}{\lambda_{j}+\mu} \frac{\lambda_{j}}{\lambda_{j}}$ $\lambda_{j} = -\frac{\Sigma}{j=1} \frac{\lambda_{j}}{\lambda_{j}+\mu} \frac{\lambda_{j}}{\lambda_{j}+\mu}$ $= -\frac{\Sigma}{j=1} \frac{\lambda_{j}}{\lambda_{j}+\mu} \frac{\lambda_{j}}{\lambda_{j}+\mu}$ $= -\frac{\Sigma}{j=1} \frac{\lambda_{j}}{\lambda_{j}+\mu} \frac{\lambda_{j}}{\lambda_{j}+\mu}$