

Homework

Name: Foxerlee

ID: N12345678

Email: foxerlee1@gmail.com

1. Section

(1) Subsection

Answer:

Answer question here! 啦啦啦啦

(2) Math

Answer:

Equation:

$$\begin{aligned} E_{in}(w) &= \frac{1}{10} \sum_{i=1}^{10} (\hat{y}_i + y_i)^2 \\ &= \frac{1}{N} \|Xw - y\|_2^2 \end{aligned}$$

Matrix:

$$\begin{bmatrix} 0.7 & 55 & 1 & 0 \\ 1.3 & 65 & 0 & 1 \\ 1.6 & 70 & 0 & 1 \end{bmatrix}$$

(3) Image

Answer:



(4) Code

Answer:

```
1 import numpy as np
  x = np.array([137, 135, 127, 122, 120, 118, 118, 117, 117, 114])
3 y = np.array([28540, 40133, 39900, 0, 0, 42050, 43220, 39565, 40400, 54506])

5 A = np.vstack([x, np.ones(len(x))]).T
  m, c = np.linalg.lstsq(A, y, rcond=None)[0]
```