1 Question 6

Apply gradient descent by hand on a given training set.

1.1 information

Cost function:

$$J(\theta_0, \theta_1) = \frac{1}{2m} \sum_{i=1}^{m} (h_\theta(x^{(i)}) - y^{(i)})^2 \tag{1}$$

Hypothesis:

$$h_\theta(x^{(i)}) = \theta_0 + \theta_1 x^{(i)} \tag{2}$$

Table 1: Training examples

x	y
3	2
1	2
0	1
4	3