2. İterasyon

$\theta_0 = \theta_0 - a\frac{\partial J(\theta)}{\partial \theta_0}$ şeklinde

$\theta_1 = \theta_1 - a.\frac{\partial J(\theta)}{\partial \theta_1}$ şeklinde

$$\frac{\partial J(\theta)}{\partial \theta_0} = \frac{1}{m}\sum_{i=1}^{m}(h_\theta(x_i)-y_i) = \frac{1}{3}\left[-1+(-2)+(-3)\right] = -2$$

$$\frac{\partial J(\theta)}{\partial \theta_1} = \frac{1}{m}\sum_{i=1}^{m}(h_\theta(x_i)-y_i).x_i = \frac{1}{3}\left[(-1).0+(-2).1+(-3).2\right] = -\frac{8}{3}$$

$\theta_0 = 0.2-(0.1).(-2) = 0.4$

$\theta_1 = 0.26-(0.1).\left(-\frac{8}{3}\right) = 0.026$

3. İterasyon

$$\frac{\partial J(\theta)}{\partial \theta_0} = \frac{1}{m}\sum_{i=1}^{m}(h_\theta(x_i)-y_i) = \frac{1}{3}\left[-1+(-2)+(-3)\right] = -2$$

$$\frac{\partial J(\theta)}{\partial \theta_1} = \frac{1}{m}\sum_{i=1}^{m}(h_\theta(x_i)-y_i).x_i = \frac{1}{3}\left[(-1).0+(-2).1+(-3).2\right] = -\frac{8}{3}$$

$\theta_0 = 0.4-(0.1).(-2) = 0.6$

$\theta_1 = 0.026-(0.1).\left(-\frac{8}{3}\right) = 0.3466$