

2.3)

$$\theta_{\text{new}} = \theta_{\text{old}} - \eta \frac{\partial L}{\partial \theta}$$

$$w_1 = 0 - 0.1(-8) = 0.8$$

$$w_2 = 0 - 0.1(-5) = 0.5$$

$$b = 0 - 0.1(-5) = 0.5$$

updated parameters

$$\Rightarrow w_1 = 0.8 ; w_2 = 0.5 ; b = 0.5$$