We know that
$$\int_{j}^{2} = (\chi_{j}^{2} - t_{j}) \cdot \chi_{j}^{2} \cdot (1 - \chi_{j})^{2}$$

iii) Back propagation from olp layer to layer 1

 $W_{11} \leftarrow W_{11} - 0.5 \frac{\partial E}{\partial E} = 0.0996 \quad W_{22} \leftarrow W_{22} - 0.5 \frac{\partial E}{\partial W_{12}} = 0.1986$

Parallely,

$$W_{01}^{2} \leftarrow W_{01}^{2} - 0.5 \frac{\partial E}{\partial W_{01}^{2}} = 0.4414$$

$$\omega_{12}^{2} \leftarrow \omega_{12}^{2} - 0.5 \frac{\partial E}{\partial \omega_{12}} = 0.0541$$

$$\omega_{02}^2 \leftarrow \omega_{02}^2 - 0.5 \frac{\partial E}{\partial \omega_{02}} = 0.3218 \quad \omega_{21}^2 \leftarrow \omega_{21}^2 - 0.5 \frac{\partial E}{\partial \omega_{21}^2} = 0.1671$$

$$\omega_{21} \leftarrow \omega_{21}^2 - 0.5 \underline{\partial E}_{21} = 0.167$$

$$\omega_{11}^{2} \leftarrow \omega_{11}^{2} - 0.5 \frac{\partial E}{\partial \omega_{22}^{2}} = 0.0656 \quad \omega_{22}^{2} \leftarrow \omega_{22}^{2} - 0.5 \frac{\partial E}{\partial \omega_{22}^{2}} = 0.1560$$

$$\omega_{22}^{2} \leftarrow \omega_{22}^{2} - 0.5 \frac{\partial E}{\partial \omega_{22}^{2}} = 0.1560$$