



$$\begin{array}{cc}
 \boxed{FP_i} & y_i = f_i(y_{i-1}, W_i) \\
 \boxed{EB_i} & \frac{\partial E}{\partial y_{i-1}} = \frac{\partial E}{\partial y_i} \frac{\partial y_i}{\partial y_{i-1}}
 \end{array}$$

$$\boxed{WG_i} \quad \frac{\partial E}{\partial W_i} = \frac{\partial E}{\partial y_i} \frac{\partial y_i}{\partial W_i} \quad W_i^* = W_i - \alpha \frac{\partial E}{\partial W_i}$$