## Feedforward

Outputs

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$$\frac{\partial v_k(n)}{\partial y_j(n)} = w_{kj}(n)$$

$$\frac{\partial \mathbf{E}(\mathbf{n})}{\partial y_j(n)} = -\sum_k e_k(n)\phi_k'(\nu_k(n)) w_{kj}(n) = -\sum_k \delta_k(n)w_{kj}(n)$$

$$v_j - y_j - v_k - y_k - e_k$$