$x_1^{(k+1)} = \sigma\left(s_1^{(k+1)}\right)$

$x_1^{(k+1)}$

$x_{n_{k+1}}^{(k+1)}$

$x_{n_{k+1}}^{(k+1)} = \sigma\left(s_{n_{k+1}}^{(k+1)}\right)$

$\sigma\left(s_1^{(k+1)}\right)\left(1 - \sigma\left(s_1^{(k+1)}\right)\right)$

$\sigma\left(s_{n_{k+1}}^{(k+1)}\right)\left(1 - \sigma\left(s_{n_{k+1}}^{(k+1)}\right)\right)$

$s_1^{(k+1)} = \sum_{j=1}^{n_k} x_j^{(k)} w_{1,j}^{(k)}$

$s_1^{(k+1)}$

$s_{n_{k+1}}^{(k+1)}$

$s_{n_{k+1}}^{(k+1)} = \sum_{j=1}^{n_k} x_j^{(k)} w_{n_{k+1},j}^{(k)}$

$w_{1,i}^{(k)}$

$w_{n_k,i}^{(k)}$

$w_{1,i}^{(k)}$

$x_i^{(k)}$

$w_{n_k,i}^{(k)}$