$$x_i^{(k+1)} = \sigma\left(s_i^{(k+1)}\right)$$

$x_i^{(k+1)}$

$$\sigma(s_i^{(k+1)})(1 - \sigma(s_i^{(k+1)})$$

$$s_i^{(k+1)} = \mathbf{w_i^{(k)}}^\top \mathbf{x^{(k)}}$$

$s_i^{(k+1)}$

$\mathbf{X^{(k)}}$

$\mathbf{W_i^{(k)}}$

$\mathbf{w_i^{(k)}}$

$\mathbf{X^{(k)}}$

...