Forward pass view 1

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

$$x_i^{(k+1)}$$

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

$$s_i^{(k+1)}$$

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

...

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

$$x_1^{(k)}$$

...

$$x_{n_k}^{(k)}$$

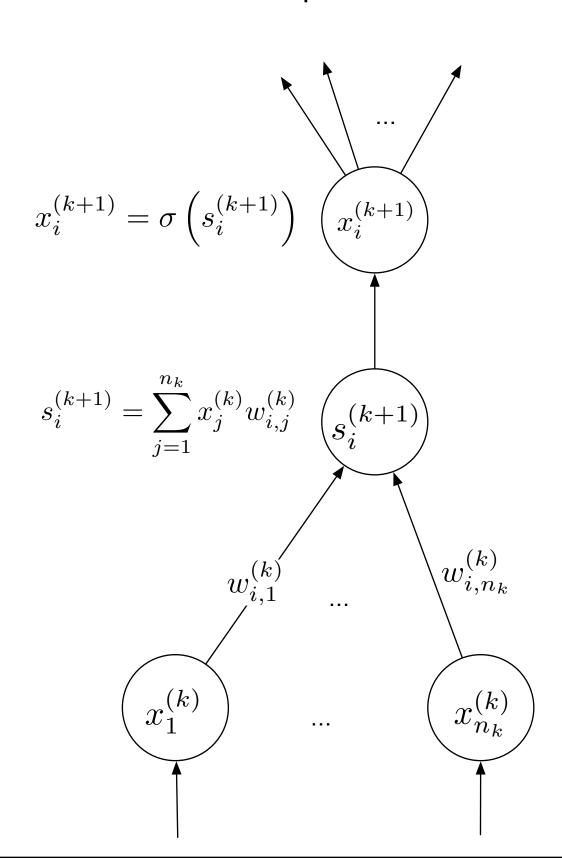## Forward pass view 2

$$-y \ln x_1^{(m)} - (1-y)\ln\left(1 - x_1^{(m)}\right)$$

$$l$$

$$x_1^{(m)}$$