

$$\begin{array}{ccccccc}
 x^{(1)} & \xrightarrow{\quad H^{(1)} \quad} & y^{(2)} & \xrightarrow{\quad \sigma \quad} & x^{(2)} & \xrightarrow{\quad H^{(2)} \quad} & y^{(3)} & \xrightarrow{\quad \sigma \quad} & x^{(3)} \\
 \mathcal{W} \downarrow & & \uparrow \mathcal{W}^{-1} & & \begin{array}{c} \uparrow \\ \mathcal{W} \vdots \mathcal{W}^{-1} \\ \downarrow \end{array} & & \begin{array}{c} \uparrow \\ \mathcal{W} \vdots \mathcal{W}^{-1} \\ \downarrow \end{array} & & \begin{array}{c} \uparrow \\ \mathcal{W} \vdots \mathcal{W}^{-1} \\ \downarrow \end{array} \\
 u^{(1)} & \xrightarrow{\quad G^{(1)} \quad} & v^{(2)} & & u^{(2)} & & v^{(3)} & & u^{(3)}
 \end{array}$$