

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