

$$\begin{array}{ccc}
 & & \begin{array}{cc} b_0 & b_1 \\ \downarrow & \downarrow \end{array} \\
 \begin{array}{l} a_0 \\ a_1 \\ a_2 \end{array} & \xrightarrow{\quad W \quad} & \begin{pmatrix} w_{00} & w_{01} \\ w_{10} & w_{11} \\ w_{20} & w_{21} \end{pmatrix}
 \end{array}$$

$$B = (B_0, B_1)$$