

$$3. \quad \bar{X} A = B \Leftrightarrow A^T \bar{X}^T = B^T$$

$$\left(A^T \mid B^T \right) = \begin{pmatrix} 1 & 1 & 0 & 2 \\ -1 & 1 & 1 & 1 \end{pmatrix} \xrightarrow{B01^+} \begin{pmatrix} 1 & 1 & 0 & 2 \\ 0 & 2 & 1 & 3 \end{pmatrix} \xrightarrow{B02} \begin{pmatrix} 1 & 1 & 0 & 2 \\ 0 & 1 & 1/2 & 3/2 \end{pmatrix}$$

$$\xrightarrow{B01^-} \begin{pmatrix} 1 & 0 & -1/2 & 1/2 \\ 0 & 1 & 1/2 & 3/2 \end{pmatrix}$$

\bar{X}^T

Symmetrisch.

$$\therefore \bar{X} = \frac{1}{2} \begin{pmatrix} -1 & 1 \\ 1 & 3 \end{pmatrix} = \underline{\underline{\bar{X}}}$$