

$$\begin{array}{c} N \updownarrow \\ \boxed{\mathbf{X}} \end{array} = \overbrace{\boxed{A}}^L \boxed{\mathbf{x}} = \overbrace{\begin{array}{|c|c|c|c|} \hline \tilde{A} & \tilde{A} & \tilde{A} & \tilde{A} \\ \hline \end{array}}^N \begin{array}{|c|} \hline \mathbf{x}_0 \\ \hline \mathbf{x}_1 \\ \hline \mathbf{x}_2 \\ \hline \mathbf{x}_3 \\ \hline \end{array} = \overbrace{\boxed{\tilde{A}}}^N \boxed{\tilde{\mathbf{x}}}$$