



$$V = \left| \begin{array}{c} \mathbf{v}_1 \\ a_{11} \\ a_{21} \\ a_{31} \end{array} \right| \begin{array}{c} \mathbf{v}_2 \\ a_{12} \\ a_{22} \\ a_{32} \end{array} \begin{array}{c} \mathbf{v}_3 \\ a_{13} \\ a_{23} \\ a_{33} \end{array} \right|$$