$$\mathbf{P}^{-1}\mathbf{A}\mathbf{P} = \begin{bmatrix} 1 & & & \\ & 1 & & \\ & & 1 \\ & & 1 \end{bmatrix} \begin{bmatrix} a_{11} & a_{12} & a_{13} & a_{14} \\ a_{21} & a_{22} & a_{23} & a_{24} \\ a_{31} & a_{32} & \mathbf{a}_{33} & a_{34} \\ a_{41} & a_{42} & a_{43} & a_{44} \\ a_{21} & a_{22} & a_{23} & a_{24} \\ a_{41} & a_{42} & \mathbf{a}_{43} & \mathbf{a}_{44} \\ a_{31} & a_{32} & \mathbf{a}_{33} & a_{34} \end{bmatrix} \begin{bmatrix} 1 & & & \\ & 1 & & \\ & & 1 \end{bmatrix} = \begin{bmatrix} a_{11} & a_{12} & a_{14} & a_{13} \\ a_{21} & a_{22} & a_{24} & a_{23} \\ a_{41} & a_{42} & \mathbf{a}_{44} & \mathbf{a}_{43} \\ a_{31} & a_{32} & \mathbf{a}_{33} & \mathbf{a}_{34} \end{bmatrix} \begin{bmatrix} 1 & & & \\ & 1 & & \\ & & 1 & \\ & & 1 & \\ & & & 1 \end{bmatrix} = \begin{bmatrix} a_{11} & a_{12} & a_{14} & a_{13} \\ a_{21} & a_{22} & a_{24} & a_{23} \\ a_{41} & a_{42} & \mathbf{a}_{44} & \mathbf{a}_{43} \\ a_{31} & a_{32} & a_{34} & \mathbf{a}_{33} \end{bmatrix}$$