

$$\mathbf{M} = \begin{pmatrix} 2 & 6 & 0 & 0 & -36 \\ 3 & 1 & 0 & 0 & -14 \\ 0 & 0 & 3 & 5 & -8 \\ 2 & 5 & 6 & 10 & -47 \end{pmatrix}$$