

1 Numpy tests

1.1 Array

$$\mathbf{a} = \begin{pmatrix} 1 & -10 & -6 \\ -10 & 1 & -9 \\ 0 & 3 & -1 \end{pmatrix}$$

1.2 Matrix

$$M = \begin{bmatrix} 2 & 3 & 4 \\ 0 & 0 & 1 \\ 0 & 0 & 2 \end{bmatrix}$$

1.3 Product

$$M\mathbf{a} = \begin{pmatrix} -28 & -5 & -43 \\ 0 & 3 & -1 \\ 0 & 6 & -2 \end{pmatrix}$$