

$$y = \begin{pmatrix} 0 & 0 \\ 1 & 0 \end{pmatrix}; \quad a = \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}; \quad x = \begin{pmatrix} 0 & 1 \\ 0 & 0 \end{pmatrix};$$

$$\{a \cdot x - x \cdot a = 2x, \quad a \cdot y - y \cdot a = -2y, \quad x \cdot y - y \cdot x = a\}$$