[redacted]

13.0007

$A = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$ $\quad M = \begin{pmatrix} a & b \\ c & d \end{pmatrix}$ $\quad a, b, c, d \in \mathbb{R}$

$AM = \begin{pmatrix} c & d \\ a & b \end{pmatrix}$

$MA = \begin{pmatrix} b & a \\ d & c \end{pmatrix}$

$AM = MA \iff \begin{cases} c = b \\ a = d \\ d = a \\ b = c \end{cases}$

Donc $M = \begin{pmatrix} a & b \\ b & a \end{pmatrix}$ avec $a, b \in \mathbb{R}$.