Maths Notes November 17, 2024

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$$\begin{bmatrix} a & b \\ c & d \end{bmatrix}^T = \frac{1}{ad - bc} \begin{bmatrix} d & -b \\ -c & a \end{bmatrix}$$
 (Transpose of a matrix and its inverse) (1)
$$\forall M \in M_2(\mathbb{R}), \ |M| \neq 0$$
 (Condition for invertibility) (2)