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Reference : Matrix Cookbook Equations (450-452) 9/17. Application Of $\frac{\partial}{\partial x_{ij}}$ In Deriving Matrix Derivatives The Jacobi's Formula Relates The Derivative Of Determinant Of A Matrix To The Derivative Of The Matrix $\frac{\partial \det X}{\partial x_{ij}} = \det X \text{Tr}(X^{-1} \frac{\partial X}{\partial x_{ij}})$ Note That $\det X$, X And $\det X \text{Tr}(X^{-1} \frac{\partial X}{\partial x_{ij}})$ Are All Scalars Feb 27th, 2022

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