Evercise 5: Criven $\chi^{2} = [Y-Ax]^{T} c^{-1}[Y-Ax]$ Takeng derivative w-r-t χ $\frac{d}{dx}\chi^{2} = -A^{T}c^{-1}[Y-Ax] - [Y-Ax]^{T}c^{-1}A$

or $A^{T}C^{-1}AX = A^{T}C^{-1}Y$ $X = [A^{T}C^{-1}A]^{-1}[A^{T}C^{-1}Y]$

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