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$$\|A_{\mathcal{X}}\|^{2} = (A_{\mathcal{X}})^{\mathsf{T}}(A_{\mathcal{X}}) = {\mathcal{X}}^{\mathsf{T}} \underbrace{A^{\mathsf{T}}A}_{\mathsf{T}} {\mathcal{X}} = {\mathcal{X}}^{\mathsf{T}} {\mathcal{X}} = \|{\mathcal{X}}\|^{2}$$

 $= |x|| \Rightarrow ||Ax|| = ||x||$

 $\Rightarrow \not\exists A \in \partial(n, \mathbb{R}), Ax=g$.

درس رجه در