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On Some Inequalities in Normed Algebras

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Abstract: Some inequalities in normed algebras that provides lower and upper bounds for the norm of $\sum_{j=1}^n a_j x_j$ are obtained. Applications for estimating the quantities $|||x^{-1}|| x \pm ||y^{-1}|| y||$ and $|||y^{-1}|| x \pm ||x^{-1}|| y||$ for invertible elements x, y in unital normed algebras are also given.



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