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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 $\left| \left\| x^{-1} \right\| x \pm \left\| y^{-1} \right\| y \right\|$ and $\left| \left\| y^{-1} \right\| x \pm \left\| x^{-1} \right\| y \right\|$ for invertible elements x, y in unital normed algebras are also given.

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