

## NEW THREE PROOFS OF CÎRTOAJE INEQUALITY

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**Abstract.** In this paper, we present three new proofs of the following Cîrtoaje inequality: If  $a$  and  $b$  are nonnegative real numbers such that  $a + b = 1$ , then  $a^{2b} + b^{2a} \leq 1$ .

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