ON GENERALIZATION OF D’AUrizio–Sándor INEQUALITIES INVOLVING A PARAMETER

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Abstract. In this work, we generalize the D’Aurizio-Sándor inequalities ([2, 4]) using an elementary approach. In particular, our approach provides an alternative proof of the D’Aurizio-Sándor inequalities. Moreover, as an immediate consequence of the generalized D’Aurizio-Sándor inequalities, we establish the D’Aurizio-Sándor-type inequalities for hyperbolic functions.

Keywords and phrases: Inequalities; trigonometric functions; monotonicity.

REFERENCES