

## ON ONE INTERESTING INEQUALITY

Ladislav Matejíčka

**Abstract.** In this paper, we give a classification of points under which the generalization of Cîrtoaje's inequality or the reverse inequality are valid.

[Full text](#)

### References

- [1] V. Cîrtoaje, *Proofs of Three Open Inequalities With Power Exponential Functions*, J. Nonlinear Sci. Appl., vol. 4, No. 2, (2011), 130–137. [MR2783839](#). [Zbl 1217.26026](#).
- [2] A. Coronel and F. Huancas, *The Proof of Three Power Exponential Inequalities*, Journal of Inequalities and Applications 2014: 509, <http://www.journalofinequalitiesandapplications.com/content/2014/1/509>. [MR3360550](#). [Zbl 1334.26068](#).
- [3] L. Matejíčka, *Proof of one open inequality*, J. Nonlinear Sci. Appl., 7 (2014), 5162, <http://www.tjnsa.com>. [MR3149262](#). [Zbl 1217.26026](#).
- [4] L. Matejíčka, *On the Cîrtoaje's Conjecture*, Journal of Inequalities and Applications, Journal of Inequalities and Applications 2016, 2016:152, DOI: 10.1186/s13660-016-1092-2. [MR3510697](#). [Zbl 1338.26010](#).
- [5] L. Matejíčka, *Some remarks on Cîrtoaje's conjecture*, Journal of Inequalities and Applications, Journal of Inequalities and Applications (2016) 2016:269 DOI 10.1186/s13660-016-1211-0. [MR3566243](#). [Zbl 1348.26010](#).
- [6] M. Miyagi and Y. Nishizawa, *A stronger inequality of Cîrtoaje's one with power-exponential functions*, J. Nonlinear Sci. Appl., 8 (2015), 224230, <http://www.tjnsa.com>. [MR3323382](#). [Zbl 1312.26035](#).

---

2010 Mathematics Subject Classification: 26D15;

Keywords: Inequalities with power-exponential functions; Cîrtoaje's inequality

*Dedicated to my grandmother Žofia Čuchorová.*

\*\*\*\*\*

<http://www.utgjiu.ro/math/sma>

- [7] Thomas M. Cover, Joy A. Thomas, *Elements of Information Theory*, John Wiley and Sons, Inc, 1991. [MR2239987](#). [Zbl 0762.94001](#).

Ladislav Matejíčka  
Faculty of Industrial Technologies, University of Alexander Dubček  
Ivana Krasku 491/30 020 01 Púchov,  
Slovakia.  
e-mail: [ladislav.matejicka@tnuni.sk](mailto:ladislav.matejicka@tnuni.sk)  
<http://www.fpt.tnuni.sk/>

## License

This work is licensed under a [Creative Commons Attribution 4.0 International License](#). 

\*\*\*\*\*

Surveys in Mathematics and its Applications **12** (2017), 1 – 6  
<http://www.utgjiu.ro/math/sma>