

# The classical Karamata's theory of regular variability and the index function operator

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The classical Karamata's theory of regular variability has a functional and sequence forms. In this paper, we will consider asymptotic equivalence relations (strong and weak asymptotic equivalence and asymptotic similarity) in terms of Karamata's theory (see [1]). We will also use the index function operator, and prove new statements of the same type (in function and sequence variants) (see [2]).

## References

- [1] D. Djurčić, O-regularly varying functions and strong asymptotic equivalence, J. Math. Anal. Appl. **220** (1998), 451–461.
- [2] D. Djurčić, D. Fatić, N. Elez, The index function operator for O-regularly varying functions, Kragujevac J. Math. **47**(7) (2023), (in press)