

On generalized Whitney numbers

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Abstract

In this paper we present a new family of numbers, called generalized Whitney numbers. This family is a generalization of different types of Whitney and Stirling numbers. Basic properties of these numbers such as recurrence relations, explicit formulas and generating functions are given. Also some interesting combinatorial identities are obtained.

Keywords: Whitney numbers, r -Whitney numbers, Stirling numbers, Jacobi-Stirling numbers, Legendre-Stirling numbers, symmetric functions

References

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