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**Non-elementary functions generated by central factorial powers.** (Ukrainian. English summary)

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Summary: We consider new functions generated by central factorials. Graphs of such functions are drawn and some of their properties are proved. We established their relationship with the hypergeometric functions. It is shown that constructed functions are solutions of ordinary differential equations derived in the article.

**MSC:**

33E20 Other functions defined by series and integrals

Cited in 1 Document

**Keywords:**

factorial power; generalized hypergeometric function; Cauchy problem