

## Order reduction for a class of partial differential equations

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### Abstract

The problem of order reduction for general equations that include a set of points of a domain in the Euclidean space and nonnegative integers, was discussed. A class of partial differential equations was employed for the purpose. The case of all Euclidean spaces equal to one, was considered for all any finite nonnegative integers. A special condition of general equations, known as pseudoparabolic was also analyzed for partial differential equations.

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