

ISSN: 2249-7137 Vol. 11, Issue 9, September 2021

Impact Factor: SJIF 2021 = 7.492



ACADEMICIA An International **Multidisciplinary Research** Journal



(Double Blind Refereed & Peer Reviewed Journal)

DOI: 10.5958/2249-7137.2021.02026.7

ON THE UNIQUENESS OF THE SOLUTION OF A TWO-POINT SECOND BOUNDARY VALUE PROBLEM FOR A SECOND-ORDER SIMPLE DIFFERENTIAL EQUATION SOLVED BY THE BERNOULLI **EQUATION**

M.Y.Qosimova*; N.X.Yusupova**; S.T.Qosimova***

*Senior Lecturer, Department of Higher Mathematics, Fergana Polytechnic Institute, Fergana, UZBEKISTAN

**Teacher, Department of Higher Mathematics, Fergana Polytechnic Institute, Fergana, UZBEKISTAN

***Teacher, Department of Higher Mathematics, Fergana Polytechnic Institute, Fergana, UZBEKISTAN

ABSTRACT

This article examines the uniqueness of the solution of the boundary problem for the second regular ordinary differential equation, which is solved in the Bernoulli equation. The uniqueness of the issue is proved by the principle of extremes.

KEYWORDS: Ordinary Differential Equation, Unity Of A Solution, Availability Of A Solution.

REFERENCES

- 1. M.S.Azizov, S.T. (2017). Equations reduced to the Rustamova Bernoulli equation. Tashkent. pp.290-293.
- 2. M.S.Azizov, S.T.Rustamova. (2019). The Cauchy problem for the first-order simple differential equation solved by the Bernoulli equation. FarDU. pp.13-15.
- 3. M.S.Azizov, S.T.Rustamova. (2019). On the uniqueness of the solution of a two-point boundary value problem for a second-order simple differential equation solved by the Bernoulli equation. NDPI. pp.152-154.