

Derbissaly, Bauyrzhan O.; Sadybekov, Makhmud A.

On the Green function of the Cauchy-Neumann problem for the hyperbolic equation in the quarterplane. (English) [Zbl 07406193](#)

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Summary: The definition of Green's function of the Cauchy-Neumann problem for the hyperbolic equation in a quarter plane is given. Its existence and uniqueness have been proven. Representation of the Green's function is given. It is shown that Green's function can be represented by Riemann-Green function.

MSC:

[34K10](#) Boundary value problems for functional-differential equations

[35L20](#) Initial-boundary value problems for second-order hyperbolic equations

Keywords:

hyperbolic equation; second initial-boundary value problem; boundary condition; Green function