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4 1. The Physical Origins of Partial Diï¬€erential Equations The initial condition is u(x,0) = 0 and the boundary condition is u(0,t) = n0. To solvethe equation goto characteristiccoordinatesÎ¾= xâˆ’ctand Ï„= t. Then the PDE for N= N(Î¾,Ï„) is NÏ„ = âˆ’r âˆš N. Separate variables and integrate to get 2 âˆš N= âˆ’rÏ„+Î¦(Î¾). Thus 2 âˆš n= âˆ’rt+Î¦(xâˆ’ct).

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