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x+ct x − ct. ψ (s)ds. (8) This is the solution formula for the initial-value problem, due to d ' Alembert in 1746. Assuming φ to have a continuous second derivative (written φ ∈C2) and ψ to have a continuous first derivative (ψ ∈C1), we see from (8) thatuitself has continuous second partial derivatives inxandt.

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