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$x+ct$ x^2+ct^2 . $\int (s)ds$. (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 $\phi \in C^2$) and ϕ to have a continuous first derivative ($\phi \in C^1$), we see from (8) that ϕ itself has continuous second partial derivatives in x and t .

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Partial Differential Equations

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$R = \{ (x, t) : 0 < x < 1, t > 0 \}$ into diamond-shaped domains with sides parallel to characteristics and within each diamond the solution $u(x, t)$ is given by a different formula. On the data cp and $1c$) we impose the compatibility condition. One Dimensional Wave Equation 85. $cp(0) = \phi(1) = 1c(0) = 1c(1) = 0$.

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$\ln = 2, J, 3, 4, \dots$ satisfy $\ln = L_{n-1} + L_{n-2} = A_1 + A_2$, with $A_1, A_2 = (1 \pm \sqrt{5})/2$ from the Fibonacci matrix U^{-1} . Compare $L_0 = 2$ with $F_0 = 0$. Minimal polynomial of A . The lowest degree polynomial with $m(A) = \text{zero matrix}$. This is $p(A) = \det(A - \lambda I)$ if no eigenvalues are repeated; always $m(A)$ divides $p(A)$.

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