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Solve Laplace's PDE:
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Differential Equation **PDE**
1 | Introduction 22.
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Equations 1 *Difference*
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L. $u(x) = f(x)$, (1.11.1)

where $x = (x, y, z)$ is a vector in three (or higher) dimensions, L. x is a linear partial differential operator in three or more independent variables with constant coefficients, and $u(x)$ and $f(x)$ are functions of three or more independent variables.

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$r(u_2)r_+$. 1.

$r^2(u_2)\theta\theta, 0 < r < 1, 0$

$\leq \theta < 2\pi, t > 0, u_2(1, \theta, t) =$

$0, 0 \leq \theta < 2\pi, t > 0, u_2(r, \theta, 0)$

$= -u_1(r, \theta), 0 < r < 1, 0$

$\leq \theta < 2\pi$. You can check,

using linearity (or

superposition), that.

$u(r, \theta, t) = u_1(r, \theta) + u_2(r, \theta, t)$

is a solution of the given

problem. The solution of

subproblem #1 follows

immediately from the

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