

In Problems 27–30, a partial differential equation (PDE) is given along with the form of a solution having separated variables. Show that such a solution must satisfy the indicated set of ordinary differential equations.

$$27. \frac{\partial^2 u}{\partial r^2} + \frac{1}{r} \frac{\partial u}{\partial r} + \frac{1}{r^2} \frac{\partial^2 u}{\partial \theta^2} = 0$$

with $u(r, \theta) = R(r)T(\theta)$ yields

$$r^2 R''(r) + rR'(r) - \lambda R(r) = 0 ,$$

$$T''(\theta) + \lambda T(\theta) = 0 ,$$

where λ is a constant.

$$28. \frac{\partial^2 u}{\partial t^2} + \frac{\partial u}{\partial t} + u = \alpha^2 \frac{\partial^2 u}{\partial x^2}$$

with $u(x, t) = X(x)T(t)$ yields

$$X''(x) + \lambda X(x) = 0 ,$$

$$T''(t) + T'(t) + (1 + \lambda\alpha^2)T(t) = 0 ,$$

where λ is a constant.

Partial Differential Equations Problems And Solutions

ML Yell



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