

In Problems 1–16, use separation of variables to find, if possible, product solutions for the given partial differential equation.

1.  $\frac{\partial u}{\partial x} = \frac{\partial u}{\partial y}$

2.  $\frac{\partial u}{\partial x} + 3 \frac{\partial u}{\partial y} = 0$

3.  $u_x + u_y = u$

4.  $u_x = u_y + u$

5.  $x \frac{\partial u}{\partial x} = y \frac{\partial u}{\partial y}$

6.  $y \frac{\partial u}{\partial x} + x \frac{\partial u}{\partial y} = 0$

7.  $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial x \partial y} + \frac{\partial^2 u}{\partial y^2} = 0$

8.  $y \frac{\partial^2 u}{\partial x \partial y} + u = 0$

9.  $k \frac{\partial^2 u}{\partial x^2} - u = \frac{\partial u}{\partial t}, k > 0$

10.  $k \frac{\partial^2 u}{\partial x^2} = \frac{\partial u}{\partial t}, k > 0$

11.  $a^2 \frac{\partial^2 u}{\partial x^2} = \frac{\partial^2 u}{\partial t^2}$

12.  $a^2 \frac{\partial^2 u}{\partial x^2} = \frac{\partial^2 u}{\partial t^2} + 2k \frac{\partial u}{\partial t}, k > 0$

13.  $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} + 2k \frac{\partial u}{\partial t}, k > 0$

# Advanced Engineering Mathematics Problems Solution

**Minjie Lin**



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