

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

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A Loxley



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