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1. Laplace's partial differential equation is  $\nabla^2 u = 0 \Rightarrow \frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} + \frac{\partial^2 u}{\partial z^2} = 0$

Euler

2. Brunswick businessman

3. ~~No~~. Yes. Carl Friedrich prove it.

4. a)