

**Problem 1.10.** *Writing the wave operator in four real variables as*

$$\square = \left[ \frac{\partial^2}{\partial t^2} - \left( \frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} + \frac{\partial^2}{\partial z^2} \right) \right] \mathbb{I}_{2 \times 2},$$

*find four elements  $A, B, C, D \in \mathbb{K}$  defined in Problem 1.4, so that*

$$\square = \left( \frac{\partial}{\partial t} A + \frac{\partial}{\partial x} B + \frac{\partial}{\partial y} C + \frac{\partial}{\partial z} D \right)^2$$

1

**Problem 1.4.** *Prove that the quaternions*

$$\mathbb{K} \equiv \{x \cdot 1 + y \cdot i + z \cdot j + w \cdot k \mid x, y, z, w \in \mathbb{R}\}$$

*form a skew field, with the usual vector addition and multiplication defined by  $i^2 = j^2 = k^2 = -1$ ,  $ij = -ji = k$ ,  $jk = -kj = i$ ,  $ki = -ik = j$ .*

# Abstract Algebra Problems With Solutions

**Steve Warner**



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