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21. Show that i) $(\nabla \cdot \mathbf{v}) = \nabla \cdot (\mathbf{v})$ ii) $\nabla \cdot (\mathbf{v} \otimes \mathbf{w}) = \nabla \cdot \mathbf{v} \cdot \mathbf{w} + \mathbf{v} \cdot \nabla \cdot \mathbf{w}$ iii) $\nabla \cdot (\mathbf{v} \otimes \mathbf{w}) = \nabla \cdot \mathbf{v} \cdot \mathbf{w} + \mathbf{v} \cdot \nabla \cdot \mathbf{w}$ iv) $\nabla \cdot (\mathbf{v} \otimes \mathbf{w}) = \nabla \cdot \mathbf{v} \cdot \mathbf{w} + \mathbf{v} \cdot \nabla \cdot \mathbf{w}$ 22. Evaluate i) $\Delta^2 (x^2 + y^2)$ ii) $\Delta^2 (x^2 + y^2)$ iii) $\Delta^2 (x^2 + y^2)$ 23. Prove that i) $\Delta^2 (x^2 + y^2) = 4$ ii) $\Delta^2 (x^2 + y^2) = 4$ iii) $\Delta^2 (x^2 + y^2) = 4$ 24. Find the missing term in the following data.

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21. Show that i) $(\nabla \cdot \nabla) \Delta u = \Delta (\nabla \cdot \nabla) u$ ii) $\nabla \cdot \nabla \Delta u = \Delta \nabla \cdot \nabla u$
 iii) $\delta_{ij} \partial_j \partial_k u = \partial_j \partial_k u$ iv) $\nabla \cdot \nabla \Delta u = \Delta \nabla \cdot \nabla u$
 v) $\mu \delta_{ij} \partial_j \partial_k u = \partial_j \partial_k u$ 22. Evaluate i) $\Delta^2 3x^2 + 4x^2 + 2x^2$ Ex
 ii) $\Delta^2 3x^2 + 4x^2 + 2x^2$, the interval of differencing
 being unity. 23. Prove that i) $u_x u_x u_x = 3u_x^2$
 $2u_x^2 = u_x^2 + u_x^2 + u_x^2$ ii) $u_x u_x u_x = 3u_x^2$
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Lloyd Nicholas Trefethen FRS (born 30
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