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Solutions 7 Vector And Tensor Analysis

7 Vector And Tensor Analysis: 1. 2. 3. (a) The Easiest Way To Solve This Problem Is The Following. Consider The Vector: $A_i = \varrho_{ijk} \partial_j \partial_k \phi$ (16) Since $\varrho_{ijk} = -\varrho_{ikj}$, $-A_i = \varrho_{ikj} \partial_j \partial_k \phi = \varrho_{ikj} \partial_k \partial_j \phi$ (17) Since The Derivatives Can Be Interchanged. But The Second Term On The Right Side Is Also Equal To A_i , Since The J and K are Summed Over. Apr 17th, 2024

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