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I'm studying Tensor calculus and I found this interesting problem: Show that:  $\Delta F = \frac{1}{\sqrt{|g|}} \partial_i (\sqrt{|g|} g^{ik} \partial_k F)$  Here's some attempts, hope it helps, even I find them useless! Well, we know that:  $\Delta F = \nabla \cdot \nabla F$  And :  $\nabla \cdot \mathbf{V} = \nabla_{iv} v^i$  Using it :  $\Delta F = \nabla_i (g^{ik} \partial_k F)$

## Laplace operator and tensor calculus:



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Definition. The Einstein tensor is a tensor of order 2 defined over pseudo-Riemannian manifolds. In index-free notation it is defined as  $E = -\frac{1}{2}R + \frac{1}{2}Rg$ , where  $R$  is the Ricci tensor,  $g$  is the metric tensor and  $R$  is the scalar curvature. In component form, the previous equation reads as  $E_{ab} = -\frac{1}{2}R_{ab} + \frac{1}{2}Rg_{ab}$ . The Einstein tensor is symmetric  $E_{ab} = E_{ba}$  and, like the on shell stress-energy tensor, divergenceless  $\nabla_a E^a_b = 0$ .

### **Einstein tensor - Wikipedia**

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