b. Check your V' expression by showing $\nabla^2 V' + \frac{\partial}{\partial t}\left(\vec{\nabla} \bullet \vec{A}'\right) = -\rho / \varepsilon_0 = 0$ and $\left(\nabla^2 - \frac{1}{c^2}\frac{\partial^2}{\partial t^2}\right)\vec{A}' - \vec{\nabla}\left(\vec{\nabla} \bullet \vec{A}' + \frac{1}{c^2}\frac{\partial V'}{\partial t}\right) = -\mu_0 \vec{J} = 0$ .Are $\vec{A}'$, V' in the Lorentz Gauge?