General Relativity HW 8 Quiz Name_____

You know the drill!

1. What is the metric for the interior solution of an infinite body of vacuum energy? That is, the energy-momentum tensor is simply proportional to the metric, i.e. $T_{\mu\nu} = kg_{\mu\nu}$.

2. For which of $\Lambda = +, -, 0$ is it possible to place an object at rest a certain finite distance from the center of a spherically symmetric source and have it remain at rest? What is going on?