Homework #8 (10pts total)

- 1. What role did the ether have for 19th century physicists?
- 2. What does the empirical equivalence of inert and gravitational masses entail?
- 3. The metric field $g_{\mu\nu}$ determines the structure of a Riemannian space. What did Einstein assume about the metric field?
- 4. In what sense is space no longer absolute in general relativity?