Assignment #1. Pre-20th Century Physics

- 1. How does Newton's concept of natural motion differ from Aristote's?
- 2. How does Aristotle explain the observed retrograde motion of the planets?
- 3. What is an inertial reference frame in Newton's theory of motion? What is the Newtonian Relativity Principle?
- 4. How are inertial frames related to each other in Newton's theory of motion? How are they related in Maxwell's theory of motion (i.e., electrodynamics)?
- 5. In Newton's theory of motion, how are accelerated reference frames observationally distinct from inertial frames?