

Homework #5 (10pts total)

1. What is Leibniz's Principle of Sufficient Reason? According to Leibniz, how would the existence of absolute space violate the Principle of Sufficient Reason?
2. What is Leibniz's Principle of the Identity of Indiscernibles? According to Leibniz, how would the existence of absolute space violate the Principle of the Identity of Indiscernibles?
3. According to Berkeley, what causes the water to recede from the axis of rotation in Newton's spinning bucket? Why is this an inadequate response?
4. Instead of Newton's absolute space, what does Mach suggest we use as a frame of reference from which to judge inertial motions?