## Assignment #12: Modal Interpretations and Quantum Logic. Due Weds 5/4.

- 1. (2pt.) What is the Problem of Imperfect Measurements for the KHD Modal Interpretation?
- 2. (2pt.) In your own words, explain why it is a matter of quantum logic that the statement "Any property always has a definite value" is true. How does this address the Measurement Problem?
- 3. (3pt.) If, according to quantum logic, any property always has a definite value, then how are we to interpret the probabilities that appear in quantum mechanics? Explain your answer.
- 4. (3pt.) How can the quantum logic interpretation of quantum mechanics get around the Kochen-Specker Theorem?