

MEMS 0051 - Introduction to Thermodynamics
Quiz #1

Name: _____

Problem #1

Determine the *phase* of water at the following states:

- (a) $-50\text{ }^{\circ}\text{C}$, $1,000\text{ [kPa]}$
- (b) $25\text{ }^{\circ}\text{C}$, $10,000\text{ [MPa]}$
- (c) $50\text{ }^{\circ}\text{C}$, $10,000\text{ [kPa]}$
- (d) $325\text{ }^{\circ}\text{C}$, 10 [kPa]
- (e) $600\text{ }^{\circ}\text{C}$, 100 [MPa]
- (f) $0.01\text{ }^{\circ}\text{C}$, 101.325 [kPa]

