

MEMS 0051 - Introduction to Thermodynamics
Quiz #1

Name: [Solution](#)

Problem #1

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

(a) $-50\text{ }^{\circ}\text{C}$, $1,000\text{ [kPa]}$

[Solid](#)

(b) $25\text{ }^{\circ}\text{C}$, $10,000\text{ [MPa]}$

[Solid](#)

(c) $50\text{ }^{\circ}\text{C}$, $10,000\text{ [kPa]}$

[Liquid](#)

(d) $325\text{ }^{\circ}\text{C}$, 10 [kPa]

[Vapor](#)

(e) $600\text{ }^{\circ}\text{C}$, 100 [MPa]

[Supercritical Fluid](#)

(f) $0.01\text{ }^{\circ}\text{C}$, 101.325 [kPa]

[Solid+Liquid](#)

