Name: _____

Problem #1

Determine the specific volume for water existing at T=900°C and P=919 [kPa]

Problem #2

Consider helium taken at 298 [K] and a pressure of 150 [kPa]. The critical pressure and temperature are P_c=227,000 [Pa] and T_c=5.19 [K]. Calculate the reduced temperature and pressure and determine if we can treat it as an ideal gas.

Problem #3

Determine the quality of water existing at 500 [kPa] with a specific volume of 0.20 [m³/kg]