ME 24-221
Thermodynamics I

Quiz No: 2
September 22 2000
Instructor: J. Murthy
15 minutes
Open textbook, closed notes

   A closed rigid tank initially contains water at a pressure of 1MPa and a specific volume of 0.23268 m^3/kg. It is cooled to a temperature of 165°C.

1. What is the initial temperature in the tank?

2. What is the final pressure in the tank?

3. What is the final quality?

4. Draw the process on a P-v diagram.