Tips for HW16, Part A

1. Label states 1, 2, 3, and 4. The feedwater pump will be located between states 1 and 2. The boiler between states 2 and 3, etc. At each state identify the two independent, intensive properties you will use to set the state.
2. For each component, make a diagram of just the component, and write out First Law (and conservation of mass) for open systems for that component. Simplify these equations down using information about each of the processes. Come up with a convenient, consistent naming convention for your variables.
3. Using your supplement, find the temperature, pressure, enthalpy (and quality, if necessary) at each state.