

## Mech 262: Thermodynamics 2 Assignment #2

Due Thursday May 1st

- The Following two Process form a combined cycle power plant. The heat for the boiler comes from the exhaust of the brayton cycle. Each turbine in both cycles and the air compressor operate with an isentropic efficiency of 80%, while the water pumps can be assumed to be 100% efficient. The power plants total power output is 50MW

Using the information presented in the schematics calculate the following:

- Mass flow rates of each cycle (air and water)
- Thermal Efficiency

**Use a cold air-standard analysis**

