

Self Grading Test 3

PROBLEM 1)

P-v and T-s diagrams	1/14 of 2/14
State calculations (7 of them)	7/14 of 7 /14
Thermal efficiency (need “y” – fraction to OFWH)	1/14 of 4/14
Correct final results?	1/14 of 1/14
TOTAL	10/14

PROBLEM 2)

P-v and T-s diagrams	1/10 of 2/10
State calculations (4 of them)	1/10 of 4/10
Qin, Wnet, Qout, thermal efficiency	2/10 of 2/10
Qprocess, Utilization factor (is equal to therm eff)	0.5/10 of 1/10
Correct final results?	0/10 of 1/10
TOTAL	4.5/10

FINAL GRADE:

$$(90/2) * (10/14+1/10) = 52.4\%$$

Reflection

Test three was the easiest of the test this semester. From the first question, finding the state calculations was a bit tedious. I was required to use the thermal efficiency equation to solve for the enthalpy at multiple stages. Interpolating was apart of the process as well for the few values that were not expressed directly. Once all the unknown variables were found I was able to each step of the problem and solve for the required term. Question two was similar to the first as far finding the enthalpy. There were less states to find so it did not require the same amount of interpolation.