| NDID | | | | | Problem 1 | | | | | Problem 2 | | | Probler | 13 | Final Grade |
|-----------|---|------|------------------------------------|------------|------------------------------|--|--|--|--|------------------------------|-----|---|---------------------------|------------------------------------|--|
| a | a) 8 | b) 8 | | c) 8 | d) 8 | | a) 8 | a) 14 | | b) 10 c |) 6 | | a) 15 | b) 15 | 1 |
| 902085075 | 8 | 1 | 8 | 8 | | 8 | 8 | 1 | 4 | 10 | 6 | | 15 | 15 | 1 1 |
| 902048494 | 8 | | 8 | 8 | | 8 | 8 | 1 | 4 | 10 | 6 | | 15 | 10 see solution | |
| 902079535 | 8 | | 8 | 8 | | 8 | 8 | 1 1 | 4 | 10 | 6 | | 15 | 10 see solution | |
| 902086884 | 8 | | 8 | 8 | | 8 | 8 | 1 | 4 | 10 | 6 | | 15 | 8 see solution | |
| 902037801 | 8 | | 7 right work wrong answer | 8 | | 6 right equation, pump work negative | 8 | | 4 | 10 | 6 | | 15 | 10 see solution | |
| 902101705 | 8 | 1 | 8 | 8 | | 8 | 8 | 1 | 3 wrong numbers | 9 wrong numbers | 2 | see soln | 15 | 12 see solution | |
| 902083647 | 8 | _ | 8 | 8 | | 8 | 8 | | 3 calculation error | 10 | - 6 | | 15 | 6 see solution | |
| 902084746 | 8 | | 8 | 8 | | 6 Pump work negative | 7 Point 4 not right | | 4 | 10 | - 4 | | 15 | 8 see solution | 1 |
| 902103813 | 0 | + | 0 | - 0 | | o | 7 3 to 4 not correct | | 2 work not quite right | 0 | 2 | see solution | 15 | 9 see solution | |
| 902063721 | 6 wrong h3 | 1 | 8 | 8 | | 8 | 5 missing numerical volume values, v2>v1 | 1 | 4 | 10 | - 2 | occ solution | 15 | 10 see solution | |
| 902086259 | 8 | + | 8 | 8 | | 8 | 5 you need a cycle, and should have P4=P1 | 1 - | 2 wrong numbers | 9 wrong numbers | 2 | see soln | 15 | 10 see soln | 1 |
| 902104511 | 8 | + | 0 | — • | | 8 | 0 | | B wrong work | 10 | - 2 | 000 0011 | 15 | 10 see solution | |
| 902085155 | 0 | + | 0 | 1 0 | | | 6 high pressure should be below P_c | ١., | 2 wrong numbers | 9 wrong numbers | 2 | see soln | 15 | 8 see soln | 1 |
| 902118299 | 0 | _ | 0 | - 0 | | | 4 see solution | 1 - | wrong numbers | 5 Widing Hambers | | see suiii | 10 | 9 see solution | 1 |
| 902089456 | 8 | + | 0 | 8 | | | 7 state 3 should be past critical volume | 1 | multiply change in energy by mass, wrong work | 8 multiply by mass | 2 | | 15 | 10 see solution | _ |
| 902078018 | 4 no m^dot | _ | 4 | 1 0 | | | o state 3 should be past childar volume | 1 | a littlianing change in energy by mass, wrong work | 7 du not dh | - 4 | vibration and rotation needed | 15 | 11 see solution | _ |
| 902104152 | 9 110 111 001 | + | 9 | 1 0 | | | 8 | 1 - | 3 calc error in mass | | | Vibration and rotation needed | 10 | 10 see solution | |
| 902104152 | 8 | + | 0 | 1 8 | | | | ' | 6 missing work | 8 wrong u1 | 2 | | 15 | 10 see solution 10 see solution | 1 |
| 902038604 | | + | 0 | 1 8 | urrang h2 | | 5 state 2 and 3 should be off the dome, wrong v2 | 1 - | o imponing work | 7 una aparau pat antirete: | - 2 | | 15 | 10 see solution 10 see solution | + |
| 902089724 | 6 wrong h2 2 see solution | + | • | + ' | wrong h2 | | o o o o o o o o o o o o o o o o o o o | 1 - | D wrong work | 7 use energy not enthalpy | 2 | | 15 | 10 see solution 10 see solution | + |
| 902093809 | 2 see solution | + | 9 | 1 8 | 1 | 9 | 0 | | 0 wrong work | 10 | - 2 | | 15 | | + |
| | 8 | + | 8 | 8 | | 8 | 8 | 1 1 | 0 a few errors, see solution | 7 need du not dh | | see solution | 15 | 5 see solution | _ |
| 902011187 | 8 | + | 8 | 1 8 | | 8 | 8 | - | 6 work required | 7 mass not used | | see solution | 15 | 6 see solution | - |
| 902101399 | 8 | - | 8 | 8 | | 8 | 6 you sketched a process, return 4->1 | - | 6 need the W12 | 10 | 2 | see soln | 15 | 7 need to derive the time constant | - |
| 902087815 | 8 | - | 8 | 8 | | 5 equation incorrect | 6 P shouldn't be above critical point | - | 7 need work | 9 need work | 4 | | 15 | 8 see solution | |
| 902047444 | 8 | - | 8 | 8 | | 8 | 8 | | 6 Need work, not delta H | 7 incorrect u's | | see solution | 15 | 7 see solution | . |
| 902102015 | 8 | - | 8 | 8 | | 8 | 8 | | 0 find work with PdV | 6 see solution | | but why does cp change? | 10 | 9 see solution | . |
| 902085080 | 8 | - | 8 | 8 | | 8 | 6 high pressure should be below P_c | - | need W12; not a CV | 5 not a CV, wrong approach | 2 | see soln | 15 | 10 see soln | |
| 902089355 | 8 | - | 8 | 8 | | 8 | 7 state 4 should be on the dome | _ | need mass for change in energy, wrong work | 8 multiply by mass | 2 | | 7 | 10 see solution | |
| 902083668 | 8 | - | 8 | 8 | | 8 | 3 Plot not right, see solution | 1 | 4 | 9 calculation error | 6 | | 3 see solution | 6 see solution | |
| 902091063 | 8 | - | 8 | _ | | 8 right idea, wrong numbers | 8 | | 0 use cv not cp, wrong work | 8 use energy not enthalpy | 2 | | 4 | 10 see solution | |
| 902095687 | 8 | _ | 8 | 8 | | 8 | 8 | | 6 need the W12 | 7 du not dh | | see soln | 13 see soln | 3 see soln | |
| 902100614 | 3 wrong h values. No need to convert to C | | 8 | 8 | | 8 | 5 badly distorted plot, P_3 < P_c | _ | 6 need the W12 | 7 du not dh | 3 | its more vibration/rotation than inter-molucula | 15 | 8 see soln | |
| 902087548 | 8 | | 8 | 4 | multiply by mdot, not divide | 8 | 1 see solution | _ | 1 trapezoidal for work | 9 work is off | 4 | | 15 | 2 see solution | |
| 902088001 | 8 | | 8 | 8 | | 8 | 6 P shouldn't be above critical point | | 6 need work, incorrect cv | 7 du not dh | 2 | see solution | 10 | 6 see solution | |
| 902152289 | 8 | | 6 wrong h values | 8 | | 6 not clear how you got your numbers | 7 v_4 > v_2 | 1 | Work calculation has errors, see soln | 10 | | see soln | 0 | 10 | |
| 902086966 | 8 | | 8 | 8 | | 8 | 6 isobaric 4 to 1, it is a cycle | | 8 need work | 8 Q equation not quite right | | see solution | 10 | 4 see solution | |
| 902046468 | 8 | | 8 | 8 | | 8 | 8 | | 6 need the W12 | 10 | 2 | physics? | 5 see soln | 3 see soln | |
| 902088647 | 6 units are wrong | | 6 h3 - h4, h4 is incorect | 6 | h1 - h2, h1 incorrect | 7 | 6 3 should not be under vapor dome | | 6 need to consider work | 7 du not dh | 6 | | 10 | 6 see solution | |
| 902088766 | 8 | | 8 | 8 | | 8 | 8 | 1 | 0 wrong work | 10 | 2 | | 3 correct c values | 1 | |
| 902098025 | 8 | | 8 | 8 | | 0 | 7 Distorted plot | 1 | 4 | 8 | 4 | see solution | 3 | 3 | |
| 902099315 | 8 | | 8 | 8 | | 6 pump work negative | 6 | | 9 see solution | 10 | 2 | see solution | 3 see solution | 3 see solution | |
| 902086239 | 8 | | 8 | 8 | | 4 see soln | 5 need a vapor dome | | 2 see soln | 2 see soln | 2 | see soln | 15 | 9 see soln | |
| 902088025 | 8 | | 8 | 8 | | 8 | 4 see solution | | 7 need work | 1 imperfect, cv not constant | 0 | see solution | 10 | 8 see solution | |
| 902084016 | 8 | | 8 | 8 | | 8 | 8 | | 6 see solution | 3 see solution | 2 | | 5 see solution | 3 see solution | |
| 902086591 | 4 see solution | | 4 see solution | 4 | see solution | 4 see solution | 6 3 to 4 incorrect | | find work with PdV | 7 don't forget work! | 2 | but why are cv and cp less accurate? | 10 | 7 see solution | |
| 902085368 | 8 | | 6 wrong h values | 6 | wrong h values | 8 | 8 | | 4 need W12; not a CV | 5 not a CV, wrong approach | 2 | see soln | 5 can't use ideal gas! | 4 see soln | |
| 902152656 | 8 | | 6 multiply by mdot | 6 | multiply by mdot | 0 see solution | 4 many mistakes | | 4 missing work, use cv not cp | 7 use energy not enthalpy | 2 | | 8 | 10 see solution | |
| 902103643 | 7 wrong h2 | | 7 h3 - h4 | 7 | h1 - h2 | 5 equation incorrect | 0 missing | | 7 need work | 5 work is not zero, need m | 2 | see solution | 6 see solution | 6 see solution | |
| 902079473 | 8 | | 8 | 8 | | 8 | 6 1-2 wrong plot | | 3 | 3 | 2 | | 3 see soluton | 1 see solution | |
| 902058255 | 8 | | 8 | 8 | | 6 Pump work should be deducted | 8 | | 3 see solution | 3 see solution | 2 | see solution and watch lectures | 1 see solution | 1 see solution | |
| 902090532 | 2 see solution | | 8 | 8 | | 4 Qdot in was given, pump work is negative | 4 missing numerival volume values, 1 should be on dome | | 2 missing work, use cv not cp, multiply by mass | 8 wrong mass | 2 | | 2 | 8 see solution | 1 |
| 902095902 | 8 | 1 | 5 wrong h values; unclear analysis | 5 | | 0 wrong concepts, see soln | 3 many mistakes | 1 | 3 see soin | 3 see soln | 2 | see soln | 15 | 3 see soln | 1 |
| 902089142 | 2 see solution | | 5 no Q, adiabatic | | no Q | 8 | 6 v4>v3 | | 6 missing work | 7 use energy not enthalpy | 0 | | 7 | 0 | 1 |
| 902105631 | 2 wrong equation, right h values | | 6 multiply by mdot | 8 | | 0 | 7 missing numerical values for volume | 1 | 2 multiply change in energy by mass | 7 wrong mass, subtract u1 | 0 | | 2 | 0 | T |
| 902046915 | 8 | | 4 see soln | 3 | wrong first law, see soln | 0 see soln | 0 see soln | 1 | B see soln | 8 see soln | 2 | see soln | 5 very confused, see soln | 3 see soln | 1 |
| 902084809 | 2 see solution | | 0 see solution | 1 0 | | 0 | 4 4-1 not right, label x | 1 | 4 see solution | 10 | 4 | | 10 see soln | 6 see solution | 1 |
| 902086334 | 1 see soln | | 1 see soln | 1 | see soln | 1 see soln | 1 see soln | 1 | 6 need the W12 | 10 | 2 | see soln | 5 see soln | 5 see soln | 1 |
| 902079468 | 0 | _ | 4 | 1 4 | | 6 | 0 | 1 | 2 see solution | 2 see solution | | see solution | 3 see solution | 3 see solution | - |
| 902087242 | 2 see solution | + | 4 need mdot | 1 2 | see solution | 3 see solution | 1 see solution | 1 | 4 see solution | 3 see solution | | see solution, work is in both cases | 0 see solution | 2 see solution | |
| 902087242 | 2 see solution 8 | | 4 where is the calculation? | 1 0 | | n see solution | 1 Wrong plot, see solution | 1 | 2 | 2 | - 1 | See Soldsoff, WORK IS III DOUT CASES | 4 | 1 | + |
| 901974848 | 0 | + | where is the calculation? | 1 0 | | | n wrong plot, see solution | 1 | 2 | 2 | 2 | | 3 see solution | 3 see solution | 1 |
| | U | - | 4 | 1 0 | 1 | 0 | 0 | + | 1 | 2 | 2 | - | Sissee Solution | 3 see solution | + |
| 902101438 | 0 | | | | | | | | | | | | | | |