

Name:

Quiz 7 (Total: 30 points)

Due back on **Wed. 29 March in the Quiz 8 folder on Canvas**

- *Follow the problem-solving strategy that you learnt in class. You will be penalized if you do not.*
- *Save your entire assignment as one PDF document and upload it in the appropriate assignment folder on Canvas.*
- *Assignments will only be graded if the honor code statement, below, is completed and signed.*

Honor Code Statement

ME 200, Quiz 7

Being a student of high standards, I pledge to embody
the principles of *academic integrity*.

This ME 200 quiz is my own work. I did not seek (or get) outside help or collaboration with any of the questions and their solutions. I also did not offer my solutions to any other student.

I understand that this quiz is “open book” and “open notes” which means that I was permitted to use my prescribed textbook and lecture notes when addressing any of the questions. I have properly cited any other resources, with full cognizance of the regulations pertaining to plagiarism, copyright infringement, academic cheating, etc., as stipulated in the Student Code.

I acknowledge that academic violations will be dealt with according to the UIUC Student Code,
Article 1, Part 4.

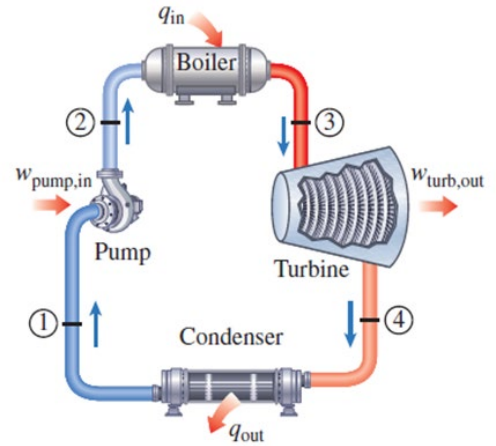
ME 200 Student's signature: _____

Student's Name: _____

Net-ID: _____

Date: _____

- Write down and solve the energy equation for each of the four processes; show all your calculations. You must also complete the table below after you have done all your calculations. Of course, you must illustrate the cycle on a p - h diagram. (30 points)



	q	w	Δh
1 – 2			$h_2 - h_1 =$
2 – 3			$h_3 - h_2 =$
3 – 4			$h_4 - h_3 =$
4 – 1			$h_1 - h_4 =$
	$q_{\text{net}} =$	$w_{\text{net}} =$	$\Delta h_{\text{cycle}} =$

