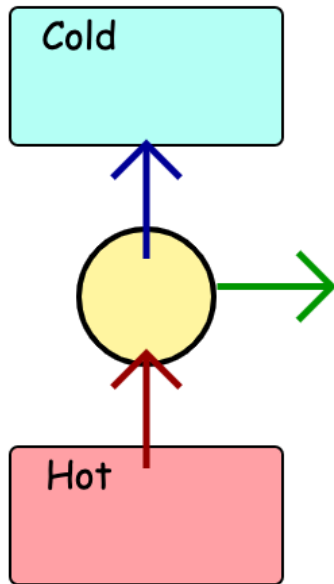# Work (Carnot Engine)

Step 1: In the picture below, fill in all the information you are given about the engine and then show the calculation to find the carnot efficiency based on the temperatures of your engine

Step 2: Show your calculation for getting the work that can be extracted from the engine based on the amount of energy that entered the engine from your heat source (Qh). Show your work neatly below

Step 3: Now show how much heat must be dumped into the cold reservoir (Qc) for this engine to not violate the laws of physics. Show your work neatly below. Enter your answers into the program to see if you did everything correctly.

Step 4: Explain why this is the most efficient engine that can be operated at the two temperatures given in your problem