Tips for HW28

* For Diesel IC Engine problem:
	+ V1/V2 = v1/v2
	+ Remember that Q = ∫T ds
	+ Assume combustion occurs between states 2-3
	+ Assume heat addition occurs between states 2-3, and that the boundary temperature is the average temp between T2 and T3
	+ Specific expansion work occurs between states 2-4 = w23 + w34
	+ Intermediate values:
		- w12 = -176 Btu/lbm
		- q12 = 0
		- q23 = 749 Btu/lbm
* For Gasoline IC Engine problem:
	+ Do the analysis for one cylinder
	+ Start with the given information
	+ Define the four states (assume ideal compression/expansion)
		- T, P, v, u, s
	+ On a per cylinder basis, calculate:
		- Net Work
		- Mass of trapped air in cylinder
		- Heat addition
		- Thermal efficiency
		- Mean Effective Pressure
	+ For the entire engine (all cylinders), calculate:
		- Power output (number of cylinders, engine speed, and 2/4 stroke)
* Reading questions from your textbook are to prepare you for refrigeration cycles (next)