

PS#6 Due Monday, March 4

- 1) Hand in your corrections for MT#2 in perfect form.
- 2) You hear some people talking, “Heat pump, Heat engine, refrigerator... are they just all the same thing?” Please distinguish these two things or explain how they are the same.
- 3) Old freezers didn’t have defrost, so they would accumulate ice on the evaporator coils. We can clean off the ice by using a screw driver!
  - a) Will removing ice improve the efficiency of the freezer? Why or why not?
  - b) Why should you **NEVER** clean the ice off this way?
- 4) OTEC What’s the best thing about it? What’s the greatest challenge?
- 5) Incandescent, fluorescent, and LED lighting technologies
  - a) Explain with a drawing how these three light-producing technologies work
  - b) Why do incandescent lights get such bad efficiency?