Tips for HW30

* Use key variables for all the answers (or use a highlighter to show the key answers in your solution area)
* Use EES to find P, T, h, s, and x at each state
* Apply equations for cycle performance parameters
* Intermediate values (if the system were operating with R22)
  + h2\_s =180.6 Btu/lbm
  + P1 = 90.79 psia
  + P3 = 147 psia
  + x4 = 0.0956
  + 4 hours of heat pump/day cost ~$0.18