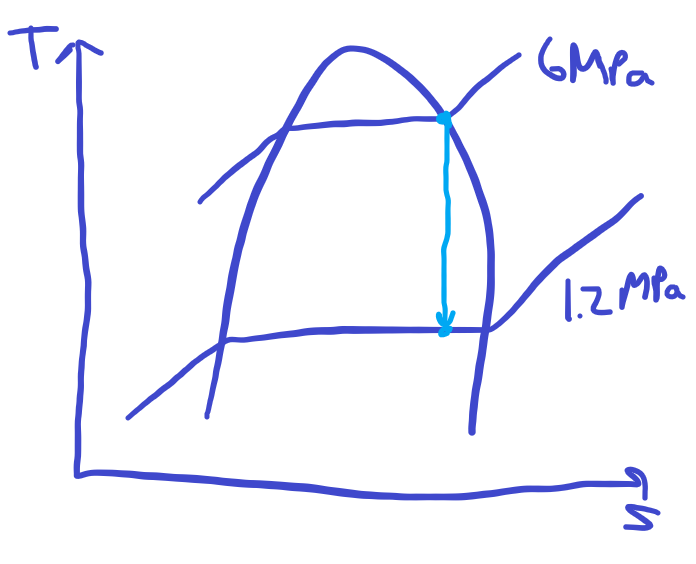
Max Shi  
E 234  
Professor De Rosa  
November 30, 2020  
I pledge my honor that I have abided by the Stevens Honor System.  
Partner: Ashley McDermott

Homework 9

1. Looking at the Hoover Dam, one of its generators produces around 130 MW, however, the Hoover Dam is triple the height and flows at 11000 m^3/s, so this would lead me to think this answer is not very realistic.
2. Not realistic, a typical 50 cm fan does not need a power draw of 51.77 kW.
3. The velocity is maximized under isentropic conditions.  
   

6. My background is in computer science, so I will start there with one.
   1. Computer Science -> Computational Science -> Computational Engineering -> Chemistry -> Energy

For another one, I’ll start at a math topic, such as Linear Algebra

* 1. Linear Algebra -> Complex system -> Climate -> Atmospheric pressure -> Universal gas constant