

Test Reflection 1

The first test was to see if we understood how to use the Bernoulli's equation, which is the major equation in fluid mechanics. It made us rearrange the equation to find minor losses, height or depth of the gasoline, and flow rate of the system. As well as finding the length of the pipe, and diameter of the tank. I had managed to find the depth or height of the gasoline, but did not calculate the minor losses with the proper equation. Thus, not being able to solve for the rest of the problems. I did not clearly write down every equation that we learned that could help out solve for the problem, and did not prepare well enough on materials involving U-tube manometers and the excel format. If I were to take the test again I would have ensured that I reviewed all the material covered and review the proper steps to find the equation that contains what the problem is asking for and arranging the equation to isolate it. The material we learned for test one could be used in the industry where we could be asked to calculate flow rates for a system with the proper minor losses, or to calculate what the length should be for a given system. Of course keeping in mind with what fluid we are working with in order to use the proper properties for that fluid. I was pretty confident on how to set up the problem, but where I faltered was in the execution and rearranging the equation where I didn't write the pipe losses equation. The excel portion was also an introduction to show how it could be used to facilitate solving the problem since most of fluids mechanics consists of iterations. If I could have went back and reviewed how to use the formulas into excel I could have probably done better and corrected my mistakes early on. As well as asking for help whenever I got stuck on a step or problem. In conclusion if I were to have reviewed everything and write what I knew clearly organizing it, and asking for help I could have had a better performance on the first exam.