

2nd Test Reflection by Nicholas Albano

A. As far as mistakes made in the first problem, I believe I missed a variable in Bernoulli's equation. My Q formula is very slightly lower than the solution and is due to missing one variable. For the second problem I was more clumsy and not as accurate as the first problem. I messed up the points in Bernoulli's equation and the conversions between the power of the pump and the motor. I think to avoid this in the future I need to slow down and understand the problem because I have a very hard time doing so. I'm always so eager to get the solution and it leads me to screw up the problem.

B. If I had to give myself a grade based on correctness, I would probably give it around a 95 for the first problem because my results were extremely close and similar. For the second problem I would give it around a 75 or 80 only because for the first half of the problem I had everything on track with the solution but then kind of fell off. There wasn't a large gap between solutions, but it was not as similar as the first problem. So, for overall I would say an 85 or 80. For the grading using the rubric here are results.

Problem 1:

$$3/12 + 2/12 + 1/12 + 3/12 + 1/12 + 1.8/12 = 11.8/12 = 98$$

Problem 2:

$$2/12 + 2/12 + .5/12 + 1/12 + 0/12 + .8/12 + 1.2/12 = 7.5/12 = 63$$

$$\text{Final} = 72.375/90 + 10 = 82.4$$

C. I would say to myself to slow down and ask better questions to Professor Ayala. You got this test, and you know how to solve it so just relax and take your time! I would also tell myself to time manage a little better because of the massive load of classes I am taking. I didn't have a ton of time and didn't start on the test the day it came out.

D. I have learned a lot these past 4 weeks for this test. I really enjoy problems like these because I can visualize how they would be used in the real world. For the first problem I can see how someone would need to find the flow rate and velocity of water from the gutters and it may be useful in the real world. For the second problem all I could think about was the ODU fountain with the lion. I was only visualizing that and how similar these problems are to real life. I really enjoy these kinds of problems, and this is probably the first class where I can visualize and see how it would be used in the industry.