

Test 3 Reflection by Nicholas Albano

1. Some of the course objectives that were done on the test include water hammer in the 7th objective for the course. We did use Bernoulli's equation for one problem on the test, but we neglected pipe losses. The main objective on this test were industrial problems from the course objectives.
2. I made a couple mistakes throughout the test and some problems had more mistakes than others. Some of the mistakes were very simple and avoidable errors. I said before that I like to rush to the answer and am eager to solve the problem quickly. However, I am slowly learning to relax and take my time, but I would tell my past self to try harder on relaxing and taking my time on each problem.
3. Based on the rubric here is the grade for each problem and total grade:
Problem 1: $(.5/5)+(.5/5)+(1/5)+(.5/5)=2.5/5$
Problem 2: $(1/6)+(1/6)+(2/6)+(0/6)+(.9/6)=4.9/6$
Problem 3: $(0/5)+(.9/5)+(1/5)+(.7/5)=2.6/5$
Problem 4: $(1/7)+(.5/7)+(1/7)+(0.5/7)+(0.5/7)+(.7/7)+(.9/7)=5.1/7$
Problem 5: $(1.7/4)+(.8/4)+(.8/4)=3.3/4$ (Formula is correct, wrong units)

$$\text{Overall: } (90/5)*(2.5/5)+(4.9/6)+(2.6/5)+(5.1/7)+(3.3/4) = 61 + (9.5\text{HW})=70.5$$

4. A. I had some issues with solving for the right variable and setting up the problems so I reached out to you and read over the textbook many times for better clarification and additional help so I don't bother you too often.
B. I took my time to complete the whole test and started it early so I wouldn't be stressed with my busy schedule and if there was something I would change I would make sure I read over the problem in more detail to understand it better on what I'm solving for. That is my main issue, the understanding of what problems like 4 is asking for.
C. I learned the water hammer concept, and industrial problems that I would use in today's world.
D. I believe they can be used anywhere in today's world. People who use manometers to measure pressure and manufacturers who want to know the speed at which their fluid flows out the nozzle.
E. Honestly, I will use this information anywhere because fluid mechanics is all around us and I'm beginning to realize how relatable this class is to the real world.
F. Absolutely! I understand that you want to make us better engineers and this is one of the only relatable class I've had to real world experiences.
G. I plan on going into government jobs after the military and this kind of information could be used if I work on ships, piping, and any type of fluid related material.
H. I have not had the chance to work in the field just yet but I have used some information in other course and I have no doubt this will be used in my career.

I. I feel like I improved the most is pipe problems and tubing problems. Using Bernoulli's equation and determining velocity in a pipe and other variables is something I think I greatly improved in.

J. I believe that this course will intersect extremely with my career and one day I will reach back out to Professor Ayala to thank him for making me work hard every day in his class.

K. I spent my entire weekend and majority of my weekdays on this test. Some of it was relaxing time so I can clear my head from the test but most of it was looking through the textbook for some help and clarification.