Test 1 Homework Reflections

Homework 1.1 Reflection

On Homework (HW) 1.1 I practice finding pressure with force over area. I also practices finding the compressibility force, finding the specific gravity and specific weight in various way making connection that mass and volume are factors of density and if you know or can find density than you can find specific gravity and if you can find specific gravity you can find the specific weight of a fluid. In HW 1.1 we also practice finding viscosity various ways for example, using a chart, or using an equation.

Homework 1.2 Reflection

On Homework (HW) 1.2 I practice taking reading pressure measurement using the equation change of pressure is equal to the specific weight of the fluid time the change in vertical distance. You start at your point A and work your way through all the fluids. If you go down in the y direction than you will add the specific weight of the fluid times the height change, but when you go up in height change you will subtract the specific weight times the height change. This is because as an object get deep in the fluid the pressure will increase.

Homework 1.3 Reflection

On homework 1.3 I practice calculating the pressure change, velocity, flow rate or height with the Bernoulli's equation and the volumetric flow rate equation. I practice making the connection that if the velocity was not given you can plug in the flow rate equation for velocity and solve that way. I also practice calculation head loss due to pipe friction, pipe fitting, entrees, and valves. One last thing that was practices was calculating pump head.