

Presentation

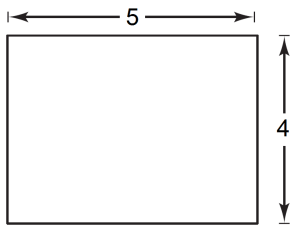
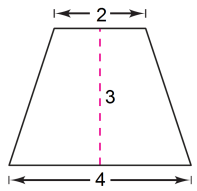
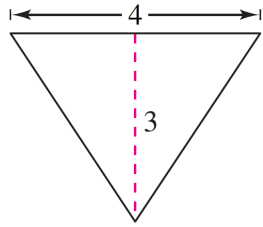
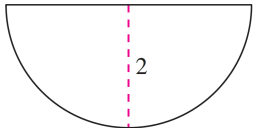
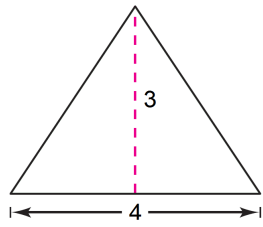
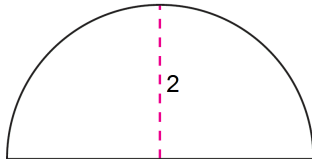
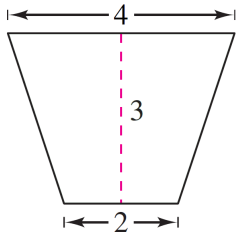
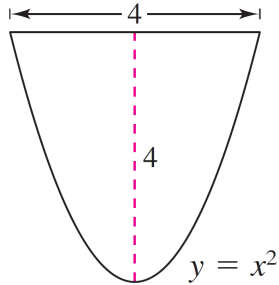
MATH-211-01 (Fall 2014)

Description: To excel as a mathematician, you must learn how to communicate ideas to others. Below, you are assigned a problem that is similar to those in Section 7.7 of the book. Your goal is to create a video of yourself explaining the solution to the problem. Your video should be done in a lecture format, like the format I use when answering questions in class. You should write the problem out completely. Draw any relevant diagrams, label and assign any relevant variables, and state the solution steps in a precise and concise manner. There is no time limit on the video, but it should be long enough for you to give a good explanation of the solution. Pretend that your audience is a group of Calculus II students who you are teaching the solution to. Your video must show at least your upper body and your entire writing surface. The video should be uploaded to YouTube as an unlisted video and the link should be sent to me via email.

Recording: Most smartphones and laptops have a video recording capability built-in. If you do not have access to either, or a friend who has either, I can lend you a camcorder. When recording, make sure the room you are in has sufficiently good lighting so there are no artifacts in the video. Ask a friend to help record or use a tripod. Instructions to build a DIY tripod are also available online with a bit of searching.

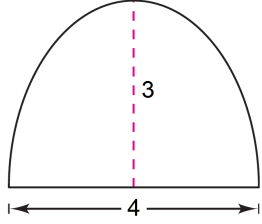
Due Date: December 5, 2014 at 11:00am.

Problem: Find the fluid force on the vertical side of the tank, where the dimensions are given in feet. Assume that the tank is full of water.

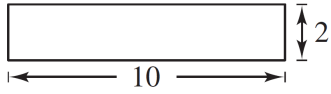
Person	Tank	Person	Tank
Murphy, Brenton		Nachtwey, Lisa Marie	
Carnahan, Megan		Benfield, Joshua	
Turley, Jake		Snare, Taylor	
Chris, Nicole		Ntwali, Arsene	

Person Tank

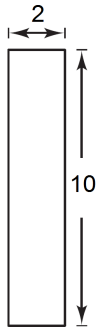
$$y = \frac{1}{2}\sqrt{36 - 9x^2}$$



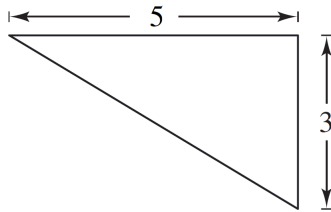
Piekarski, Eric



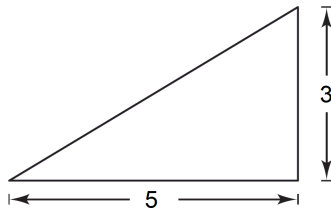
Hercules, Catherine



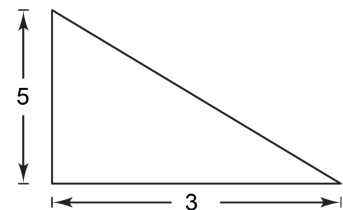
Casto, Caleb



Lapp, James

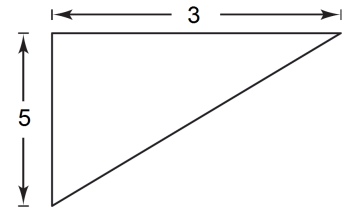


Waiialae, Kayla

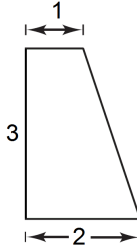


Horner, James

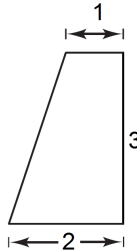
Person Tank



Bates, Michael



Bowers, Melissa



Smearman, Paige