

What we care about is the *reasoning*, **not the final answer**. Make sketches, explain them, explain your thinking, define your variables, clearly state the theorems or formulæ you use, and any assumptions you are making. If you think there are possible sources of error in your work, by all means, try to reduce it – but also acknowledge your sources of error.

How tall is the column of water in the fountain at the center of campus? Your answer doesn't need to be perfectly precise, but try to make it as good as you can (*e.g.*, don't just guess).

You may use any tools you have lying around – laser rangefinders, ropes, sticks, shoes, partners whose heights you know – but don't get wet!

Write your answer on these pages. It's probably a good idea to have a page of scratch-work (hand it in, but label it "Scratch"), and then to write a nicer, cleaner, more complete version with explanations and full sentences.

Hints:

1. What big **theorem** [true idea] are you going to use? (In class, we used *similar triangles*; we also mentioned that we could have instead used the Pythagorean Theorem, although we would have needed another tool (a "laser rangefinder") to go with the PyTh.)
2. Explain how you are using that theorem.
3. What do you need to know to use that theorem?
4. Draw a diagram!

