

Ocean Front Property

Markie MacFee



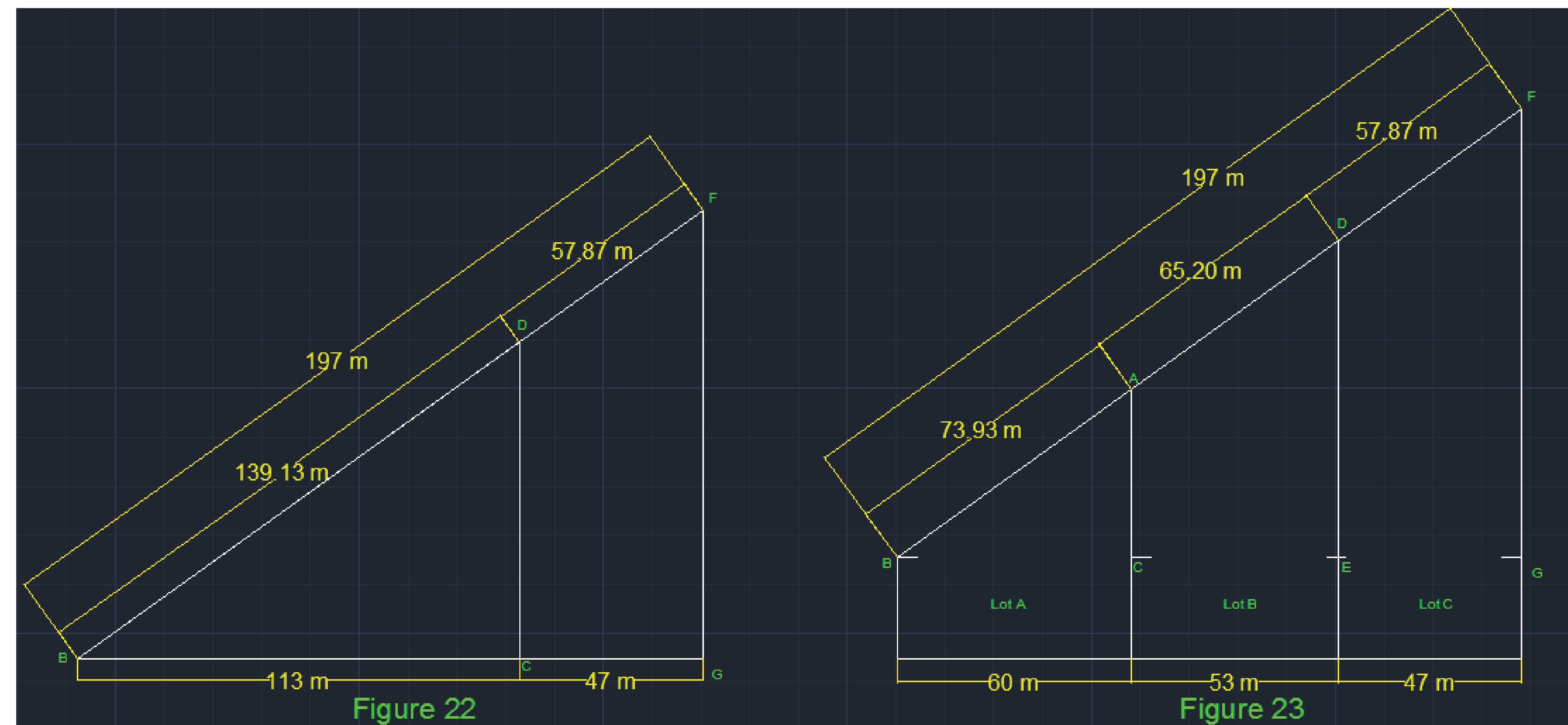
Submitted to Jennifer Greenwood
for MATH-111

Challenges

I struggled with documenting my process in a way that was clear, concise, and appropriate in writing. It was difficult for me to do all three, since the nature of the assignment begs for some level of formal delivery. In class, we are able to share our ideas and logic in significantly less formal ways using completely different language; this assignment requires even more attention to technicality, which created a bit of a challenge.

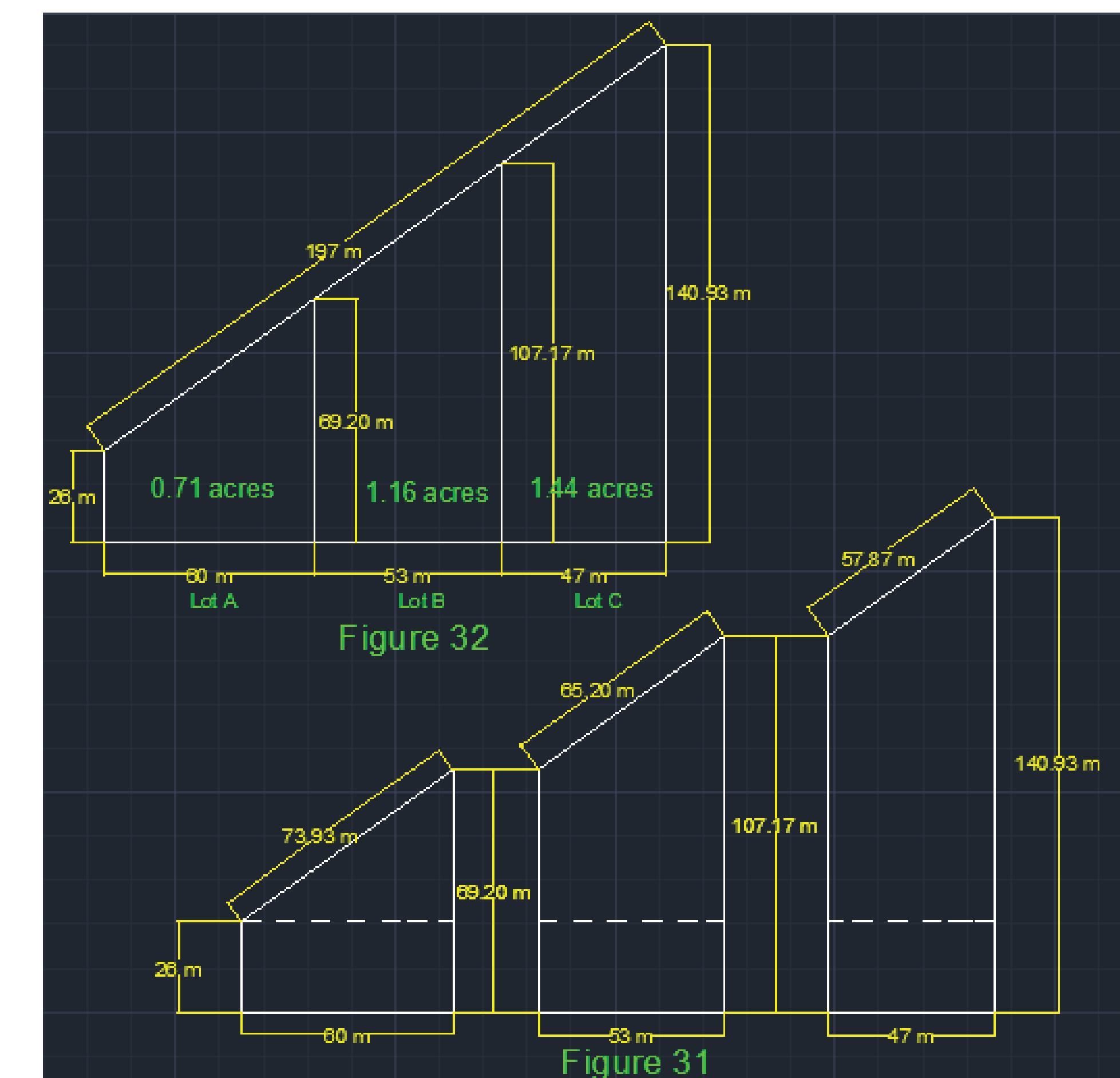
Application

I study entertainment technology and one of my core classes is Computer Aided Drafting, which I took this fall. Prior to taking that class, I would not have been able to create the diagrams that I did for this assignment. In my field, I may be asked to draw any number of objects or figures in software like AutoCAD that are not unlike the images I produced for this assignment. I practiced scale drawing and dimensioning for the images used in the assignment, which are prominent features in drafting software. Additionally, I did an internship at a warehouse this past summer that used diagrams to show how each case needs to be oriented in a truck for load-in. The person who makes those drawings calculates area and values for hypotenuses to find packing solutions very similarly to what was asked of me for this assignment.



Summary

Students were asked to evaluate three lots of ocean-side property in order to consider which property their parent(s) should purchase for retirement. Based on the image provided in the prompt, I used various geometry concepts to calculate the acreage and ocean frontage of each lot. I then considered the implications of the length, width and relative cost of each property and applied those implications to real needs and desires of my parents. My paper validated the use of each equation that is employed to find the necessary solutions, as well as justifies and shows all the work for each calculation. As a result, I was able to write a comprehensive letter to my parents explaining which piece of property I would recommend for them and why. The letter includes my final solutions for the ocean frontage and area of each property and details how those numbers influenced my response.



General Education Connection

Communicate ideas in written, oral, and other modes as appropriate to a situation and audiences. | Apply quantitative and scientific reasoning skills relevant to a field of study. | Employ various thinking strategies to develop well-reasoned judgments.

The signature assignment required me to engage the content of this course in a more abstract manner than usual. This challenged me to expand my ability to communicate a variety of concepts in written, oral, and visual modes for the purpose of developing well-reasoned judgments concerning aspects of each property. In tandem with written presentation, I used AutoCAD, a drafting software, to produce diagrams that supplement my assignment. The diagrams offer visual that aid the justification of chosen mathematical processes as well as illustrate the development of my solutions.