

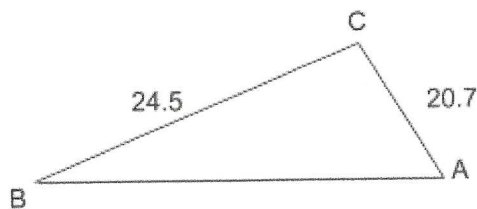
Geometry Module 7 DBA Be sure to show and explain all work.**Part 1 - Application**

To be ADA compliant, wheelchair ramps require no more than a 4.8 degree slope for the ramp. How long in feet would a ramp need to be to reach a porch that is 36 inches above the ground.

If ramps can be no longer than 30 feet. Can just one ramp be built to reach the porch or would a landing and another ramp be needed to stay ADA compliant? Show and explain your work using mathematical language from this course

Part 2 - Find the error(s) and solve the problem correctly.

A student uses the triangle shown to calculate $m\angle A$. Find and explain the student's error.



$$\tan A = \frac{24.5}{20.7}$$

$$\tan A = 1.184$$

$$\tan^{-1} 1.184 = A$$

$$49.81 = A$$

$$\text{Therefore, } m\angle A \approx 49.81$$

Part 3 - Discussion Question

True or False. If true, give a convincing argument. If false, explain why it is false. Be sure to use mathematical language in your explanation.

As an airplane flies toward you, its angle of elevation increases.

Part 4 - Reflection

Your response must be at least three paragraphs (1 paragraph per question).

This question required:

1. Describe a specific LSS resource in addition to the course content that you used in this module and how it helped you learn the concepts.

~~Choose 2~~ of the following questions:

2. What new information have you learned from this module? What surprised you about what you learned? What knowledge from your past courses did you use in this module?
3. Over the course of this module, what concept did you find the most challenging? What did you do to clarify the concepts in this module to further your learning? How did I move through roadblocks or challenges?
4. Briefly explain a concept in this module and give at least one real world example that demonstrates the concept that you have selected. Share an original example that you have written and solved. Be sure it is not given in the course content or in the application question above.
5. What would you do differently in the next module that you didn't do in this module?

Rubric

	Not applicable	Needs Improvement	Proficient	Exemplary
	(0 points)	(up to 5.5 points)	(up to 8.5 points)	(up to 10 points)
Part 1 Application	Solution is incorrect and the student did not show or explain work or work the problem incorrectly.	Solution is incorrect; however the student showed their work and made an error(s) in calculations. OR Solution is correct but there is no work shown or explained	Solution is correct, however there is little work shown for the problem.	Solution is correct. All work shown and explained using mathematical language from this module.
Part 2 Find the Error	Errors not found or explained. Error in attempt to rework the problem.	Some or no errors found. Problem reworked out partially.	All or most errors found and explained. Problem not reworked correctly.	All errors found and explained. Problem worked out correctly with all work shown
Part 3 Discussion Question	Discussion question not answered or discussed without correct conclusion	Errors in discussion. Little to no mathematical language included in the discussion	Discussion has few errors. Little to no mathematical language included in the discussion	Discussion is correct using mathematical language included in this module to answer the discussion question.
Part 4 Reflection	Reflection not answered.	Reflection attempted but response is less than 3 paragraphs. No specific examples given.	3 paragraphs are written but less than 2 sentences and/or meaningful discussion is missing for a paragraph. Little to no specific examples given.	3 paragraphs of at least 3 meaningful sentences each answering each question reflecting on this module. Specific examples are given to justify the reflection questions.