ALBERTA DISTANCE LEARNING CENTRE

Mathematics 10-3 MAT1793

Unit B: Right Angled Triangles Chapter 4 Lesson 1

Student's Questions and Comments	FOR STUDENT USE ONLY	FOR A	FOR ADLC USE ONLY			
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			Marks Earned	Total Possible Marks	Percen	
		Lesson 1		28		
Teacher's Comments:						
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Workbook 4

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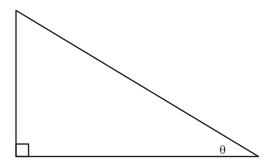
Lesson Assignment

This assignment includes short answer questions. Be sure to show all necessary work. You may ask for clarification from your teacher, but you will not be given the answer.

Lesson 1

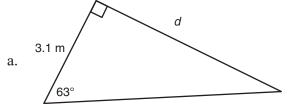
Include a **formula** as part of your work where applicable.

1. On the right triangle shown, label the sides using the terms opposite and adjacent, in relation to angle θ .

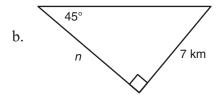


2. Determine the value of the variable in each of the following triangles.

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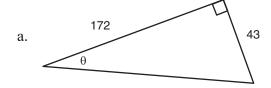


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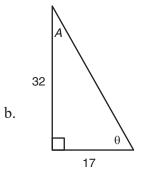


3. Determine the measures of the unknown angles, to the nearest degree, in each of the following diagrams.

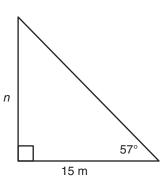
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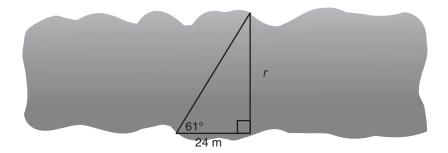
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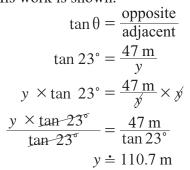
4. A wire supporting a radio tower is secured to the ground 15 m from the base of the tower. If the angle between the ground and the wire is 57°, what is the height of the tower?

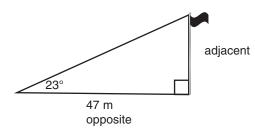


 $\boxed{3}$ 5. Determine the width of the river, r.



6. Dylan was asked to determine the height of the flagpole, as shown. His work is shown.





The height of the flagpole is approximately 110.7 m.

- a. What error did Dylan make?
- b. Correct his error to find the actual height of the flagpole.

7. For safety, a ladder must not create an angle greater than 75° with the ground.

Lisa leaned her ladder against a wall so that the bottom of the ladder was 3 ft from the base of the wall, and the top of the ladder reached 9 ft up the wall. Is Lisa's ladder safely positioned? Explain.

You have completed Lesson 1 Assignment. Please return to the Module

and continue your exploration with Lesson 2.



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