

# ALBERTA DISTANCE LEARNING CENTRE

## Mathematics 10-3

MAT1793

### Unit B: Right Angled Triangles

#### Chapter 4 Lesson 2

#### Student's Questions and Comments

#### FOR STUDENT USE ONLY

Student Name:

\_\_\_\_\_

#### FOR ADLC USE ONLY

Assigned to

\_\_\_\_\_

Marked by

\_\_\_\_\_

Date received

\_\_\_\_\_

#### Summary

	Marks Earned	Total Possible Marks	Percent
Lesson 2		30	

Teacher's Comments:

\_\_\_\_\_  
Teacher's Signature

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Workbook 4

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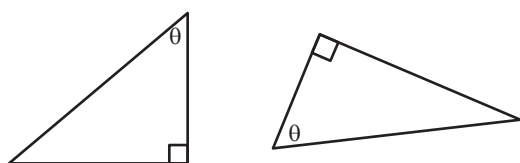
## Lesson Assignment

This assignment include 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.

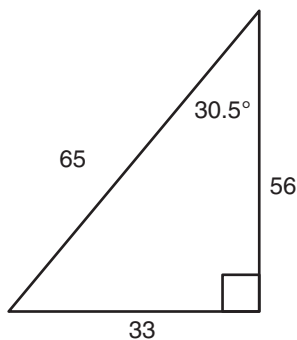
### Lesson 2

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

- ③ 1. On the following right triangles, label the sides using the terms opposite, adjacent, and hypotenuse.

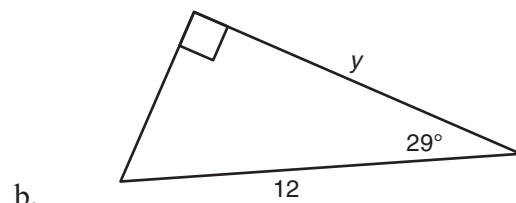
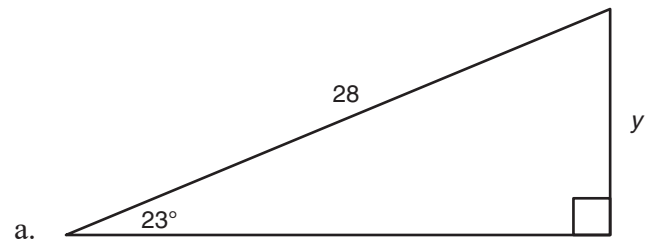


- ⑥ 2. State and evaluate the tangent ratio, the sine ratio, and the cosine ratio for the acute angle provided in the diagram, each to the nearest thousandth.



Tangent	Sine	Cosine

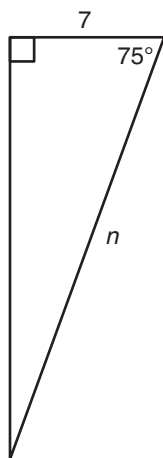
3. Determine the length of side  $y$ , to the nearest tenth, in each of the following triangles.



4. Determine the length of side  $n$ , to the nearest tenth, in each of the following triangles.

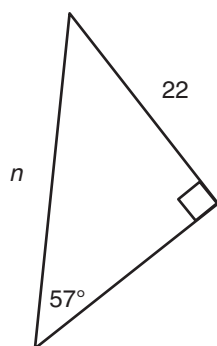
3

a.



3

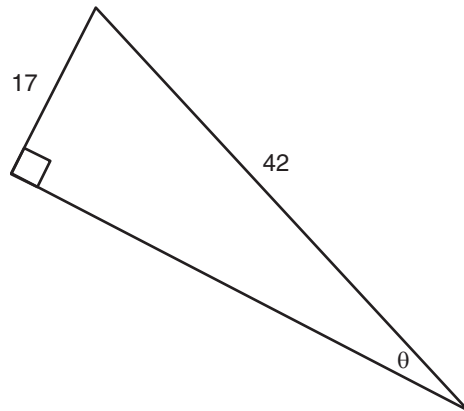
b.



5. Determine the measure of angle  $\theta$ , to the nearest degree, in each of the following triangles.

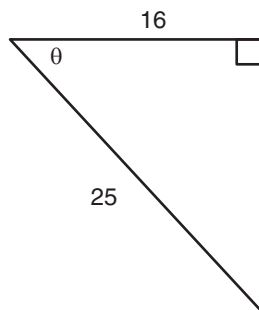
③

a.

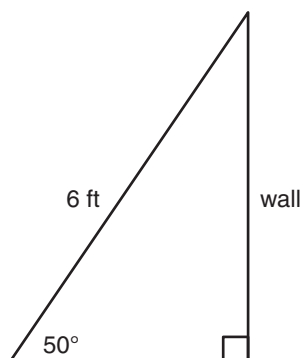


③

b.



6. Ellie wants to clean the windows on her house. She places a 6 ft long ladder against the house at a  $50^\circ$  angle with the ground.

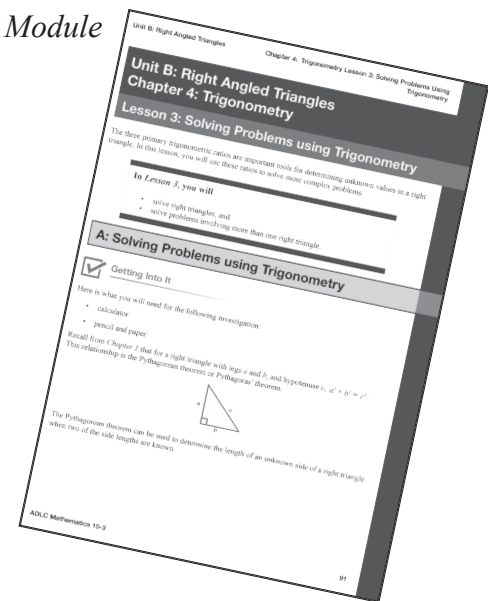


3

Determine the height the ladder will reach up the wall of the house.

/30

You have completed *Lesson 2 Assignment*. Please return to the *Module* and continue your exploration with *Lesson 3*.







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