ALBERTA DISTANCE LEARNING CENTRE
Mathematics 10C
MAT1791
Unit 3 Final Review Workbook

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Summary

	Marks Earned	Total Possible Marks	Percent
Unit 3 Final Review Assignment		18	

Teacher's Comments:

_____

Teacher's Signature

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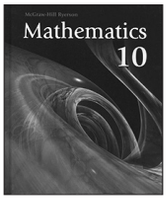

Mathematics 10

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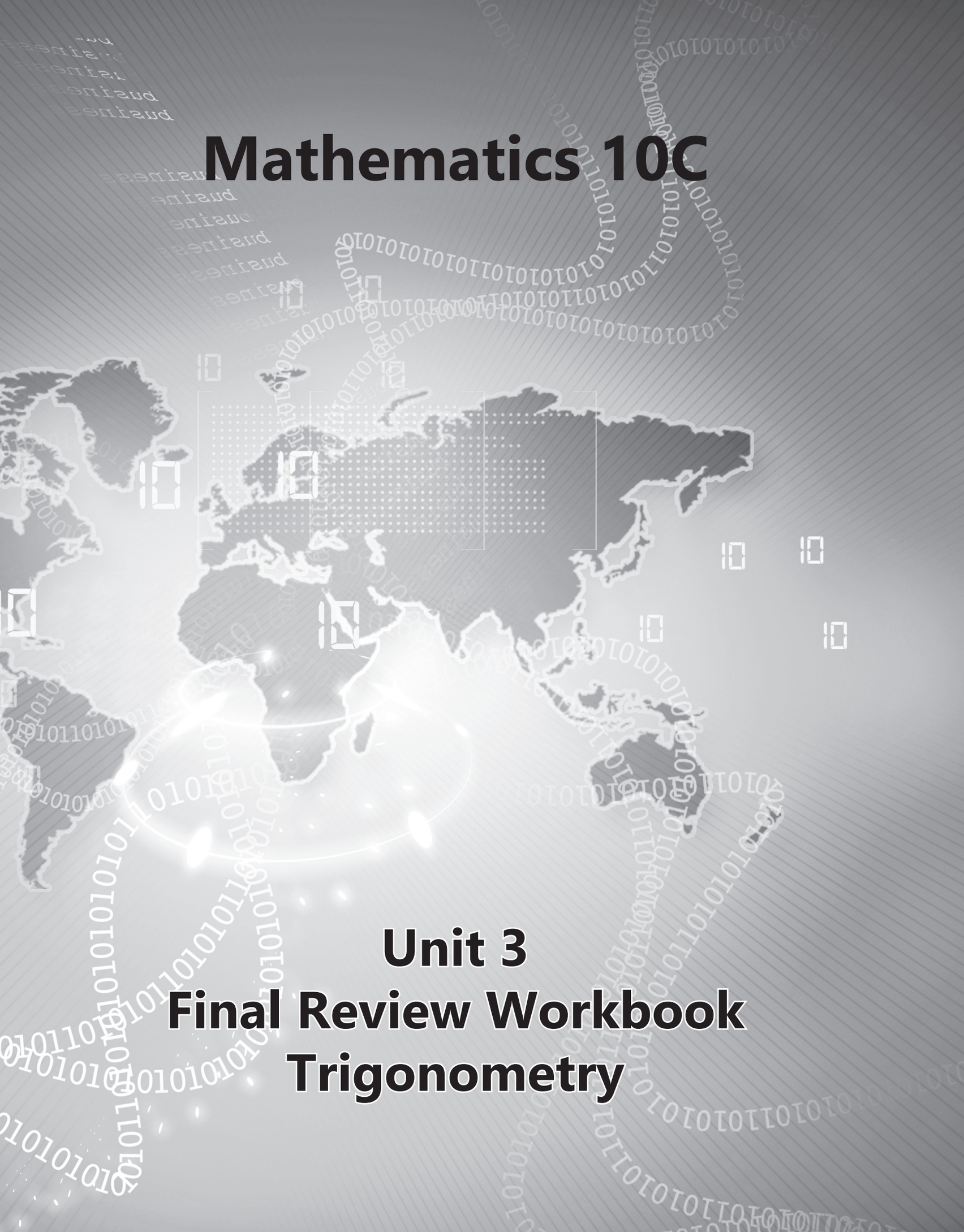


Mathematics 10C

Unit 3
Final Review Workbook
Trigonometry

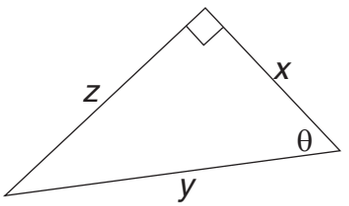
Unit 3: Trigonometry Final Review Assignment

Final Review Assignment

(1) 1. Explain why there are two sine ratios, two cosine ratios, and two tangent ratios for any right triangle.

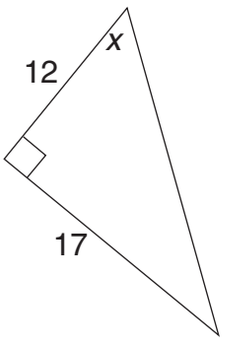
(1) 2. Explain why two similar right triangles will have the same cosine ratios.

(1) 3. Label the following triangle with “hypotenuse”, “length opposite θ”, and “length adjacent to θ”.

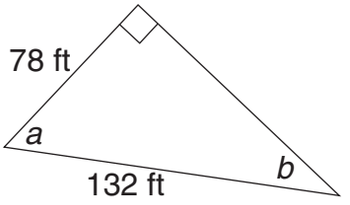


(3) 4. Determine the unknown angle measures, to the nearest degree.

a.

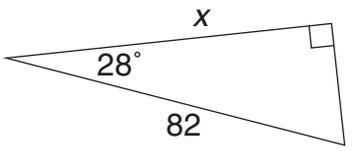


b.

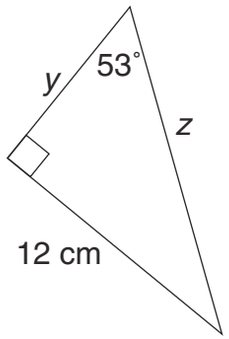


(3) 5. Determine the unknown side lengths, to the nearest tenth.

a.

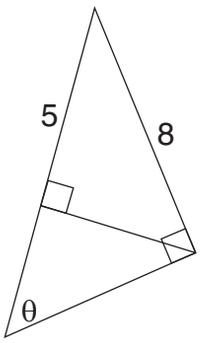


b.

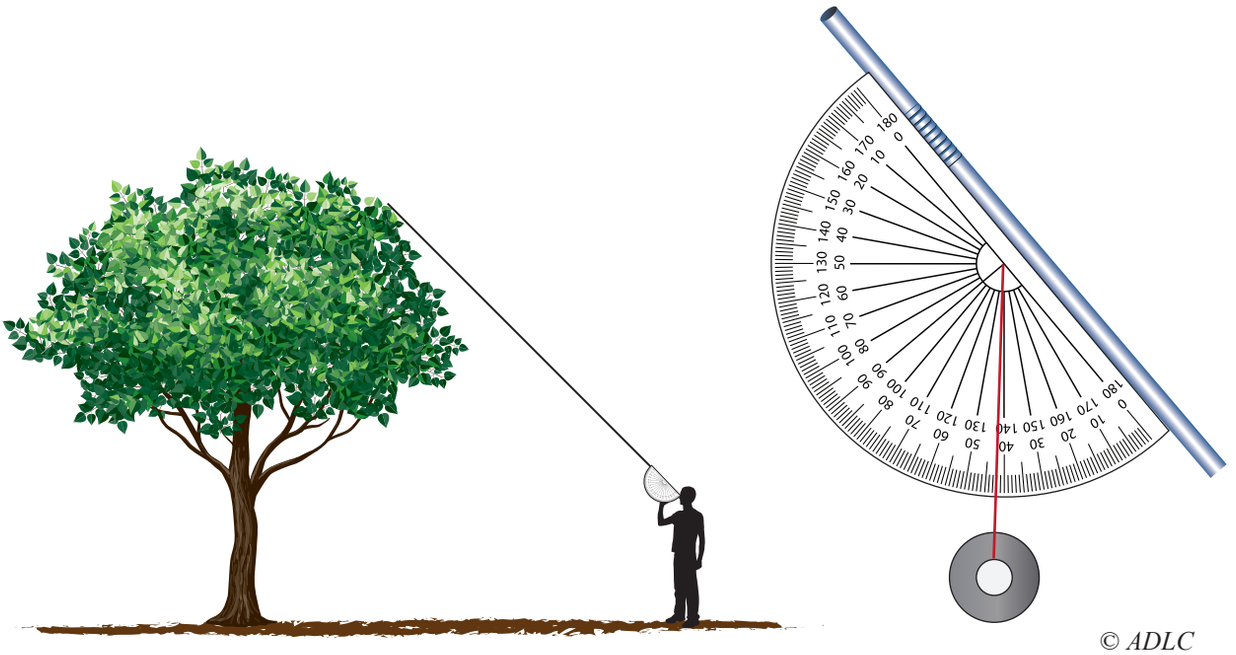


(3) 6. Solve a right triangle with an acute angle of 14° and a hypotenuse length of 100 m. Express the angle to the nearest degree and the lengths to the nearest tenth of a metre.

(3) 7. Determine the unknown angle θ, to the nearest degree, in the diagram provided.



(3) 8. Dylan has built a simple clinometer by attaching a weighted string to the centre of a protractor. He then attached a straw to the protractor to use as a sight. By looking at an object through the straw, Dylan can determine the angle of elevation to that object.



Dylan is using his clinometer to help him determine the height of a tree. He stands 6 m from the base of the tree and takes the measurement shown on the clinometer. Then, he measures the height of his eye to be 1.6 m above the ground.

a. Sketch a diagram to represent this scenario. (Hint: Be careful interpreting the angle on the clinometer. If you are unsure, think about whether this angle is measured from the vertical or from the horizontal.)

b. Determine the height of the tree, to the nearest tenth of a metre.

/18

Unit 3: Trigonometry

Unit Checkpoint

Use the *Check Point* to check and reflect before completing the *Test Your Understanding Quiz* for *Unit 3: Trigonometry*.

I understand how to:

***Unit 3* Concepts**	Place a checkmark in the appropriate column		
	Yes	**No**	**Maybe**
Explain the relationship between similar right triangles and the sine, cosine, and tangent ratios			
Identify the hypotenuse and the sides opposite and adjacent to a given acute angle in a right triangle			
Solve right triangles			
Solve problems involving right triangles by applying the primary trigonometric ratios, the Pythagorean theorem, and the triangle angle sum			
Use measuring instruments and the primary trigonometric ratios or the Pythagorean theorem to solve a problem			

If you have any concerns from the *Check Point*, please refer to *Enhance Your Understanding* in the *Module* for designated practice questions and their solutions to help you improve your skills.

Contact your teacher for assistance and clarification as needed.

You have completed the *Lessons* and *Workbooks* for *Unit 3: Trigonometry*. Please review all work in *Unit 3 Final Review Workbook* to ensure it is your best work. Submit *Unit 3 Final Review Workbook* for marking at this time and continue your training with the next unit, *Unit 4: Exponents and Radicals*.

Complete the *Test Your Understanding Quiz* when you have reviewed the feedback provided by your marker for *Workbooks 3.1, 3.2, 3.3,* and *Unit 3 Final Review*.

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