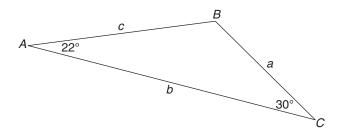
## **Lesson 4.3: Solving Non-Right Triangles**

Complete the *Practice* below. When you have completed all the questions for *Lesson 4.3 Practice* – *V* with your best work, mark your work by first comparing your answers to the solutions provided in *Appendix 2: Solutions*. Then, apply the rubric found at the beginning of the *Workbook*.



## **Practice - V**

1. If *c* is 20 km, determine *a*, to the nearest tenth.



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- 2. In  $\triangle ABC$ ,  $\angle B = 131^{\circ}$ , AB = 70, and AC = 380.
  - a. Draw a diagram to represent the information.

b. Determine the measure of  $\angle C$ , to the nearest tenth of a degree.

A guy wire is a cable that is attached to a structure and to the ground to add stability to the structure. Guy wires are commonly used on towers and poles. The angle formed between the guy wire and the tower, and the location where the guy wire is attached to the tower both affect how much stability will be added by the guy wire.

A telephone pole has been installed vertically on the side of a hill so the pole makes a 112° angle with the ground on the side of the pole where the guy wire is attached. The pole is 14 m tall, and the guy wire, which is attached to the top of the pole, is 25 m long.



a. Draw a diagram to represent this scenario.

b. Determine the angle, to the nearest tenth of a degree, between the pole and the guy wire.

Mark your work for Lesson 4.3 Practice – V using the solutions provided in Appendix 2: Solutions.

Then, apply the rubric found at the beginning of the *Workbook*.

Transfer your self-assessed mark to the front cover of the *Workbook*.

My self-assessed mark on Lesson 4.3 Practice – V is \_\_\_\_\_

Reflect on your understanding of the concepts addressed in the *Practice* exercises in the table provided.

ASSC Madheneses	9 26.1	
eed to retry or ask for help.	Similar questions from Pre-Calculus 11	
	p. 108 #2, 4ac	

- 11	Question Number	Got it!	Almost there	Need to retry or ask for help.	Similar questions from Pre-Calculus 11
	1				p. 108 #2, 4ac
	2				p. 108 #3, 5ac
	3				p. 109 #10, 12, 13

Please return to Lesson 4.3 to continue your work in Unit 4: Trigonometry.

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