ALBERTA DISTANCE LEARNING CENTRE
Mathematics 30-1
MAT3791
Workbook 2.1

Student's Questions and Comments

FOR STUDENT USE ONLY

Student Name:

_____

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Assigned to

_____

Marked by

_____

Date received

_____

Summary

	Marks Earned	Total Marks	Percent
Practice 2.1A	**I have ___ /8 and ___%**		
Practice 2.1B	**I have ___ /8 and ___%**		
Explore Your Understanding 2.1			

Teacher's Comments:

_____

Teacher's Signature

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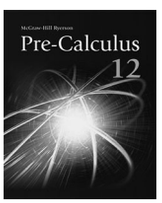

Pre-Calculus 12
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Explore Your Understanding Assignment 2.1

This assignment includes 12 marks. You are expected to complete **10 marks** worth of work. If you complete more than this, all completed questions will be used to assign a grade. For example, if you complete all 12 marks worth of work, your assignment total will be 12 instead of 10. You can also complete a question and label it "DO NOT MARK" if you are not confident in your work. Your teacher will then give feedback on your response, which will help clarify any misconceptions, but will not count it towards your required mark total. Please contact your teacher if you have any questions.

1. Draw the following angles in standard position. Your drawing should be within 15° of the actual measurement.

(1) a. $\frac{3\pi}{4}$

(1) b. -700°

(1) c. $\frac{11\pi}{3}$

(1) 2. a. Convert 385° to radians.

(1) b. Convert -7.2 radians to degrees.

(1) 3. a. Determine a negative angle coterminal to $\frac{\pi}{6}$.

(1) b. Determine all angles coterminal to 155°.

4. A fan with a 14 in diameter is run for 20 min. It rotates at 400 revolutions per minute (rpm).

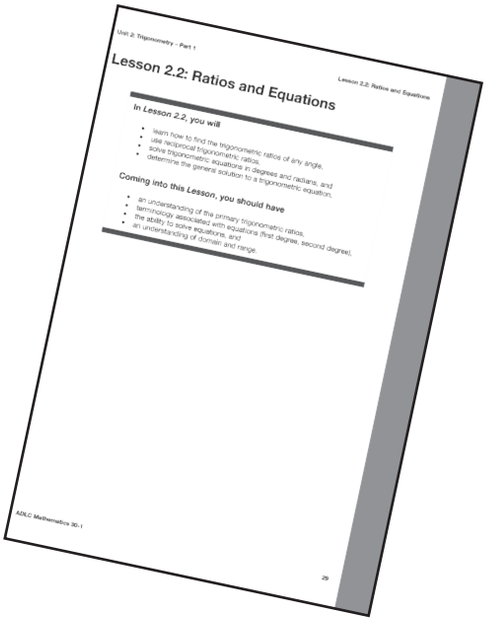
(1) a. How far does the outermost point of one of the fan blades travel during the run time?

(1) b. How far does the midpoint of one of the fan blades travel?

(2) 5. a. With the help of a diagram, explain why $x^2 + y^2 = 1$ can be used to determine whether or not a point lies on the unit circle.

(1) b. Provide a formula that can be used to determine whether a point lies on a circle that is centered about $(0, 0)$ with a diameter of 12.

When this workbook is complete, submit it using a method described at the beginning of this *Workbook*. Next, complete *Test Your Understanding Quiz 2.1* online in Moodle. When complete, return to the *Module* and begin *Lesson 2.2.*


Unit 2: Trigonometry – Part 1

Lesson 2.2: Ratios and Equations

Lesson 2.2: Ratios and Equations

In *Lesson 2.2*, you will

- learn how to find the trigonometric ratios of any angle,
- use reciprocal trigonometric ratios,
- solve trigonometric equations in degrees and radians, and
- determine the general solution to a trigonometric equation.

Coming into this *Lesson*, you should have

- an understanding of the primary trigonometric ratios,
- terminology associated with equations (first degree, second degree),
- the ability to solve equations, and
- an understanding of domain and range.

ADLC Mathematics 30–1

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