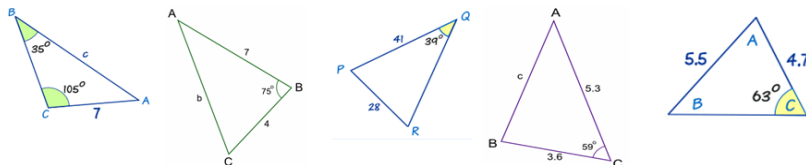
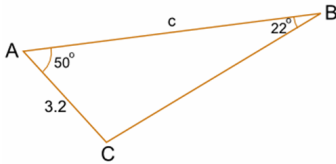
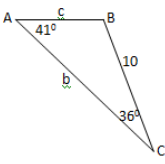
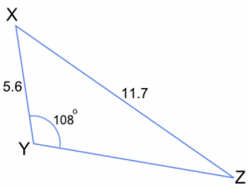


DAILY LESSON LOG of (M9AL-IVh-j-1) (Day 2)					
School			Grade Level	Grade 9	
Teacher			Learning Area	Mathematics	
Teaching Date and Time			Quarter	4 th	DLP NO:
I. OBJECTIVES					
A. Content Standards			Demonstrate understanding of the basic concepts of trigonometry		
B. Performance Standards			Is able to apply the concepts of trigonometric ratios to formulate and solve the real-life problems with precision and accuracy		
C. Learning Competencies / Objectives			Learning Competencies: Solves problems involving oblique triangles (M9GE-IVh-j-1) Learning Objectives: 1. State the Law of Sine 2. Apply the law of sine in solving the problem that involves oblique triangle 3. Show alertness in answering the problem that involves oblique triangle		
II. CONTENT			Solve Problems that Involve Oblique Triangles (Law of Sine)		
III. LEARNING RESOURCES					
References					
1. Teacher's Guide pages					
2. Learner's Materials pages			489		
3. Textbook pages					
4. Additional Materials from Learning Resource (LR) portal					
Other Learning Resources			https://www.mathopolis.com/		
IV. PROCEDURES					
A. Review previous lesson or presenting the new lesson			The teacher presents different figures of triangles and let the students to determine whether the law of sine is applicable in solving the missing parts or not. He/She instructs the students to say "YES" if the Law of Sine is applicable in solving the triangle and "NO" if it is not.  Answers: 1. YES 2. NO 3. YES 4. NO 5. YES		
B. Establishing a purpose for the lesson			The teacher lets the students use the law of sine in solving problems that involve oblique triangles.		
C. Presenting examples/ instances of the new lesson					
D. Discussing new concepts and practicing new skills #1					

E. Discussing new concepts and practicing new skills #2	
F. Developing mastery (leads to formative assessment 3)	
G. Finding practical applications of concepts and skills in daily living	
H. Making generalizations and abstractions about the lesson	The teacher asks the following questions to the students: 1. What is the law of sine? 2. What data are required for solving oblique triangle using the law of sine? Answer: 1. The Law of Sine - sine of an angle of a triangle divided by its opposite side is equal to the sine of any other angle divided by its opposite side. 2. The data required for solving oblique triangle using the Law of Sine are: • Two angles and one side (SAA Case & ASA Case) • Two sides and an angle opposite one of these sides (SSA Case)
I. Evaluating Learning	A. The teacher instructs the students that they have to give what is ask in the problem. 1. What is the length of side c? 2. What is the measure of side c and $\angle B$? 3. What is the measure of $\angle Z$?    B. The teacher with the students will do checking of the test. He/She assigns a student to answer an item from the test. Answer: 1. Solve for $\angle C$: $\angle A + \angle B + \angle C = 180^0$ $50^0 + 22^0 + \angle C = 180^0$ $72^0 + \angle C = 180^0$ $\angle C = 180^0 - 72^0$ $\angle C = 108^0$ Solve for side c: $\frac{\sin \angle B}{b} = \frac{\sin \angle C}{c}$ $\frac{\sin 22^0}{3.2} = \frac{\sin 108^0}{c}$ $c = \frac{3.2(\sin 108^0)}{\sin 22^0}$ $c = 8.1$ 2. Solve for c: $\frac{\sin \angle A}{a} = \frac{\sin \angle C}{c}$ $\frac{\sin 41^0}{10} = \frac{\sin 36^0}{c}$ Solve for $\angle B$: $\angle A + \angle B + \angle C = 180^0$ $41^0 + \angle B + 36^0 = 180^0$

	$c = \frac{10(\sin 36^\circ)}{\sin 41^\circ}$ $c = 9$ 3. Solve for $\angle Z$: $\frac{\sin Y}{y} = \frac{\sin Z}{z}$ $\frac{\sin 108^\circ}{11.7} = \frac{\sin Z}{5.6}$ $\sin Z = \frac{5.6(\sin 108^\circ)}{11.7}$ $\sin Z = 0.4552$ $\angle Z = \sin^{-1}(0.4552)$ $\angle Z = 27^\circ$ $\angle B + 77^\circ = 180^\circ$ $\angle B = 180^\circ - 77^\circ$ $\angle B = 103^\circ$
J. Additional activities or remediation	
V. REMARKS	
VI. REFLECTION	
A. No. of learners who earned 80% of the evaluation	
B. No. of learners who require additional activities for remediation who scored below 80%	
C. Did the remedial lesson work? No. of learners who have caught up with the lesson.	
D. No. of learners who continue to require remediation	
E. Which of my teaching strategies worked well? Why did these work?	
F. What difficulties did I encounter which my principal or supervisor can help me solve?	
G. What innovation or localized materials did I use/ discover which I wish to share with other teachers	

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