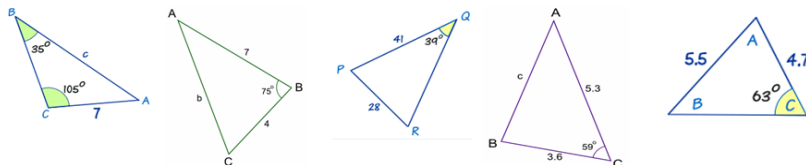
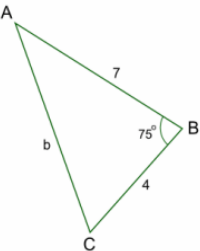
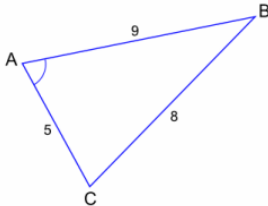


DAILY LESSON LOG of (M9AL-IVh-j-1) (Day 4)					
School		Grade Level		Grade 9	
Teacher		Learning Area		Mathematics	
Teaching Date and Time		Quarter	4 th	DLP NO:	
I. OBJECTIVES					
A. Content Standards	Demonstrate understanding of the basic concepts of trigonometry				
B. Performance Standards	Is able 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 Cosine 2. Apply the law of cosine 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 Cosine)			
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 cosine 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. NO 2. YES 3. NO 4. YES 5. NO			
B. Establishing a purpose for the lesson		The teacher lets the students use the law of cosine 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 cosine? 2. What data are required for solving oblique triangle using the Law of Cosine? Answer: 1. The Law of Cosine – the square of any side of a triangle is equal to the sum of the square of the other two sides minus the product of these sides and the cosine of their included angle. 2. The data required for solving oblique triangle using the law of cosine are: • two sides and the included angle are known • three sides are known
I. Evaluating Learning	A. The teacher instructs the students to solve the missing part/s measurements of the following triangles. 1. Solve for side b.  2. Solve for $\angle A$:  Answer: 1. solve for b: $b^2 = a^2 + c^2 - 2ac(\cos B)$ $b^2 = 4^2 + 7^2 - 2(4)(7)(\cos 75^\circ)$ $b^2 = 16 + 49 - 56(\cos 75^\circ)$ $b^2 = 65 - 56(0.2588)$ $\sqrt{b^2} = \sqrt{65 - 14.49}$ $b = \sqrt{50.51}$ $b = 7.11$ 2. solve for $\angle A$: $a^2 = b^2 + c^2 - 2bc(\cos A)$ $8^2 = 5^2 + 9^2 - 2(5)(9)(\cos A)$ $64 = 25 + 81 - 2(5)(9)(\cos A)$ $64 - 106 = -90(\cos A)$ $\frac{64-106}{-90} = \frac{-90(\cos A)}{-90}$ $\cos A = \frac{-42}{-90}$ $A = \cos^{-1}(0.4666)$ $A = 62.17^\circ$ $A = 62^\circ$
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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