

**MPM 2D Learning Goals & Success Criteria
Chapters 7 & 8: Acute Triangle Trigonometry**

Learning Goals	
I will be able to: <ul style="list-style-type: none"> • Use the Pythagorean theorem and the primary trigonometric ratios to solve problems involving right triangles. (T2) • Use the sine and cosine laws to solve problems involving acute triangles. (T3) 	
Success Criteria	
I can: <ul style="list-style-type: none"> • Explain and define the primary trigonometric ratios. • Determine the measures of unknown sides and angles in a right triangle using the primary trig ratios and the Pythagorean theorem. • Solve problems involving the measures of sides and angles in right triangles in real life applications using the primary trigonometric ratios and the Pythagorean theorem. • Explain when it is appropriate to use the sine and cosine laws. • Use the sine and cosine laws to solve for unknown sides and angles in acute triangles. • Solve problems involving the measures of sides and angles in acute triangles. 	
Test Information:	
Your test is Thursday, June 18 th . Meet in Teams at 11 or send me an Edsby message so that I know that you have accessed the test. There is NOT an online component for this test – you will download and write and then upload it to me as a single PDF file. If you need to make alternate arrangements please do so by Wednesday, June 17th at 3 pm.	
There is a more detailed test outline below. Please refer to that while you study. To study: <ul style="list-style-type: none"> • Review your notes and the videos while you complete some form of review organizer/study note. Try to connect the learning goals and success criteria to specific types of questions!! • Review examples done in lessons! • Complete questions in the suggested review or homework that you feel that you need to do. 	
Questions to Expect	<ul style="list-style-type: none"> • Solve for unknown sides and angles in right and non-right triangles by selecting the most appropriate strategy (SOH CAH TOA, Sine Law, Cosine Law) • Short answer question: Explain why the values of the sine and cosine ratios cannot be greater than one. • Short answer question: Identify the conditions necessary to use the sine/cosine law. • One word problem with a right triangle. • Two word problems involving the sine law or cosine law. • One word problem that has multiple steps (review the height of the balloon problem from the 8.5 lesson).
Suggested Review:	p. 416 #5, 6, 9, 11, 13 p. 418 #3, 4, 6 p. 453 #3, 5, 6, 8 – 10 p. 454 #1, 2, 5, 8
Notes: Please study. Do the review, but also review your notes. If you need help, come to our Teams meeting on Wednesday, June 17 th or message me on Edsby.	