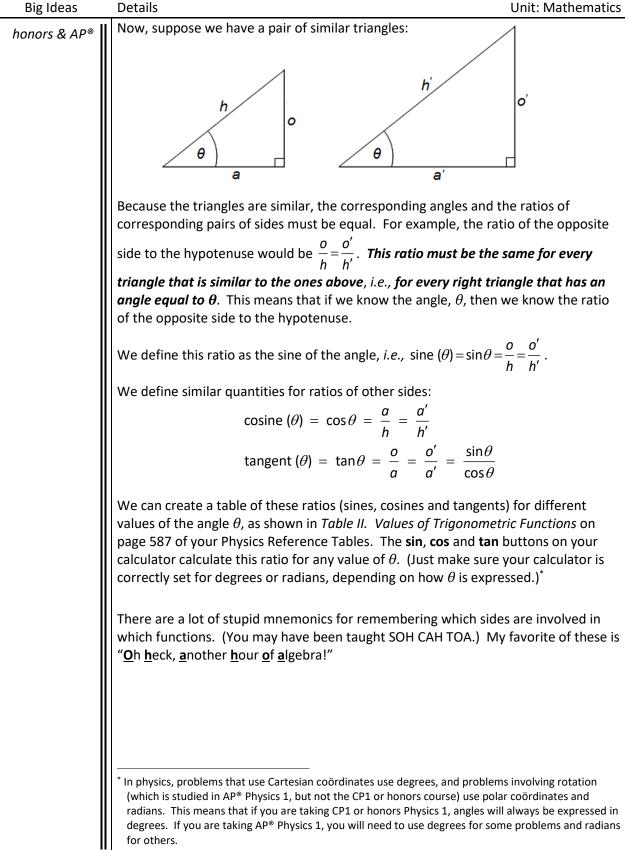
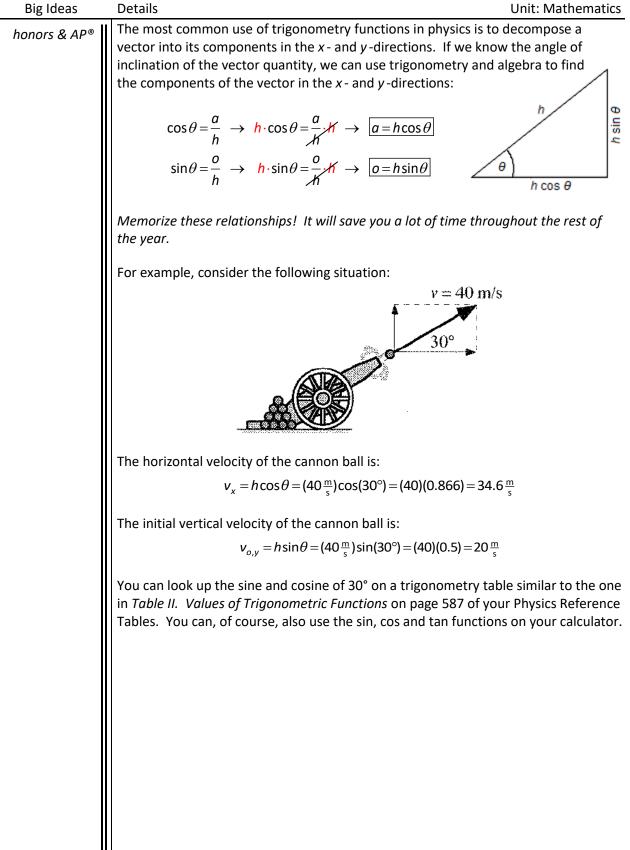
Right-Angle Thgohometry	Page: 135
Details	Unit: Mathematics
Right-Angle Trigonome	try
	•
	4) : SP2.B
 Use the Pythagorean theorem to find one side of a right other two sides. 	t triangle, given the
 Use the trigonometry functions sine, cosine and tangen right triangle, given one of the non-right angles and one 	
 Use the inverse trigonometry functions arcsine (sin⁻¹), a arctangent (tan⁻¹) to find one of the non-right angles of any two sides. 	
sides and angles.	onship between the
Language Objectives:	
 Describe the relationships between the sides and angles 	s of a right triangle.
Tier 2 Vocabulary: opposite, adjacent	
Notes:	
The word trigonometry comes from "trigon [*] " = "triangle" and "measurement", and is the study of relationships among the striangles.	
If we have a right triangle, such as the one shown to the right	:
 side "h" (the longest side, opposite the right angle) is the <u>hypotenuse</u>. 	
 side "o" is the side of the triangle that is <u>opposite</u> (across from) angle θ. 	h
• side "a" is the side of the triangle that is <u>adjacent</u> to (connected to) angle θ (and is not the hypotenuse).	θ
	 Details Right-Angle Trigonome Unit: Mathematics NGSS Standards/MA Curriculum Frameworks (2016): N/A AP® Physics 1 Learning Objectives/Essential Knowledge (202 Mastery Objective(s): (Students will be able to) Use the Pythagorean theorem to find one side of a right other two sides. Use the trigonometry functions sine, cosine and tangen right triangle, given one of the non-right angles and one Use the inverse trigonometry functions arcsine (sin⁻¹), a arctangent (tan⁻¹) to find one of the non-right angles of any two sides. Success Criteria: Sides and angles are correctly identified (opposite, adjacen Correct function/equation is chosen based on the relati sides and angles. Language Objectives: Describe the relationships between the sides and angle Tier 2 Vocabulary: opposite, adjacent Notes: The word trigonometry comes from "trigon^s" = "triangle" and "measurement", and is the study of relationships among the striangles. If we have a right triangle, such as the one shown to the right angle) is the <u>hypotenuse</u>. side "o" is the side of the triangle that is <u>opposite</u> (across from) angle θ. side "a" is the side of the triangle that is <u>adjacent</u> to (connected to) angle θ (and is not the

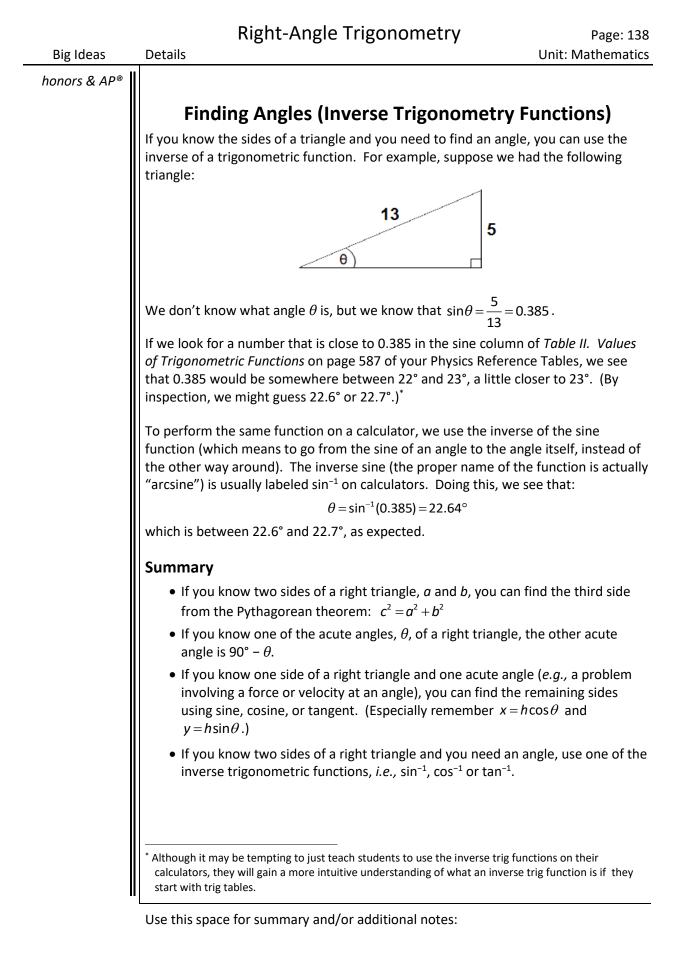
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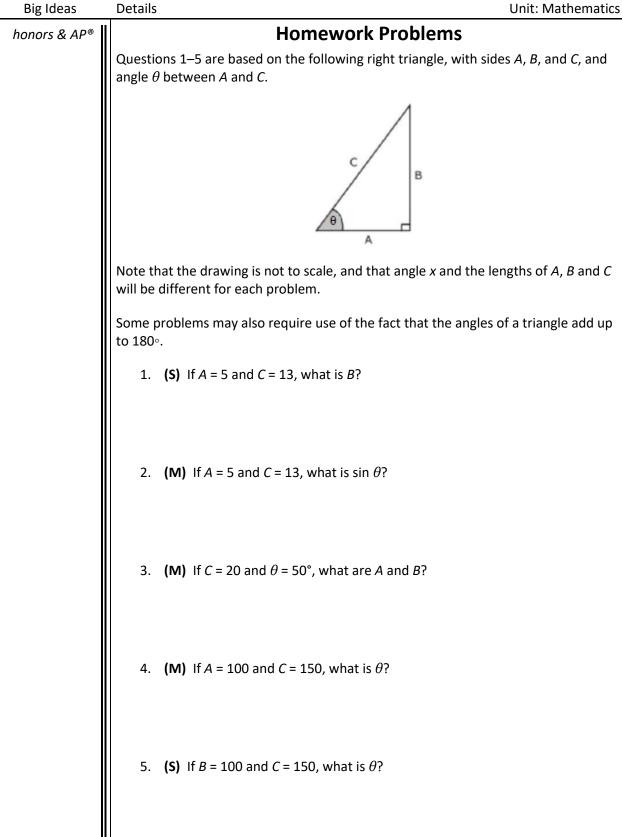


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		Right-Angle Higohometry	Page: 140
Big Ideas	Details		Unit: Mathematics
honors & AP®	6.	(M) You are a golfer, and your ball is in a sand trap with need to hit your ball so that it goes over the hill to the g 10. m away from the side of the hill and the hill is 2.5 m minimum angle above the horizontal that you need to b just get it over the hill? (<i>Hint: draw a sketch.</i>)	n a hill next to it. You green. If your ball is high, what is the
	7.	(M) If a force of 80 N is applied at an angle of 40° abov much of that force is applied in the horizontal direction	

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