

Unit 6 – Solving Oblique Triangles - Classwork

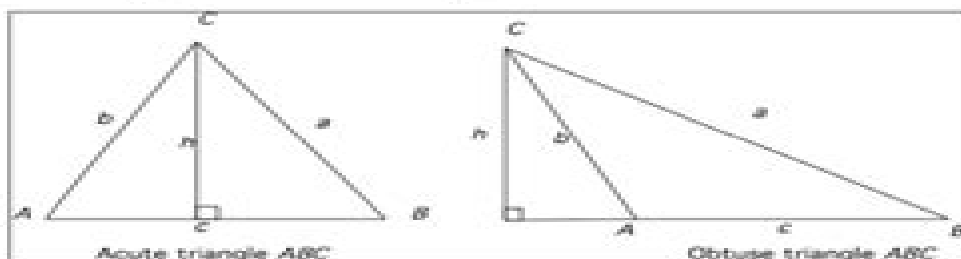
A. The Law of Sines – ASA and AAS

In geometry, we learned to prove congruence of triangles – that is when two triangles are exactly the same. We used several rules to prove congruence: Angle-Side-Angle (ASA), Angle-Angle-Side (AAS), Side-Angle-Side (SAS) and Side-Side-Side (SSS). In trigonometry, we take it a step further. For instance, if we know the values of two angles and a side of a triangle, we can solve that triangle ... that is we can find the other angle and the other sides.

We have learned to solve right triangles in Unit 3. In this section we learn how to solve oblique triangles – triangles that **do not** have a right angle.

First, let's start with a generalization for this section. All triangles will have 6 pieces of information – 3 angles and 3 sides. The angles are labeled A , B , and C and the sides are opposite the angles and are labeled a , b , and c .

Note that right angle trigonometry doesn't help us here. There is no right angle, thus no hypotenuse. We need something else. That something is called the Law of Sines.



In both triangles, we drop a perpendicular h . In both triangles we can then say :

$$\sin A = \frac{h}{b} \quad \text{and} \quad \sin B = \frac{h}{a}$$

So $h = b \sin A$ and $h = a \sin B$

It follows that $a \sin B = b \sin A$

$$\text{and thus} \quad \frac{a}{\sin A} = \frac{b}{\sin B}$$

The Law of Sines

If ABC is a triangle with sides a , b , and c , then $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$

The Law of Sines is really three laws in one: $\frac{a}{\sin A} = \frac{b}{\sin B}$, $\frac{b}{\sin B} = \frac{c}{\sin C}$ and $\frac{a}{\sin A} = \frac{c}{\sin C}$. In each one, there are 4 variables. If you know 3 of them, you can find the 4th.

Example 1) – AAS

$$A = 23^\circ$$

$$B = 48^\circ$$

$$C = 109^\circ$$

$$a = 14$$

$$b = 26.63$$

$$c = 33.88$$

Example 2) - ASA

$$A = 72.4^\circ$$

$$B = 68.9^\circ$$

$$C = 38.7^\circ$$

$$a = 3.88 \text{ in}$$

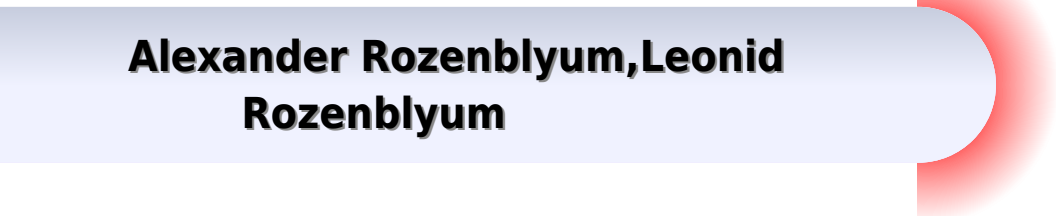
$$b = 3.8 \text{ in}$$

$$c = 2.55 \text{ in}$$

Most work is done on the calculator. Your job is to show what formulas you are using. To check a problem, verify that the largest angle is opposite the largest side and the smallest angle is opposite the smallest side.

Unit 6 Solving Oblique Triangles Answers

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Gilman, Christopher Burger, Karina Neal, 2009-06-24 Get the confidence and the math skills you need to get started with calculus Are you preparing for calculus This easy to follow hands on workbook helps you master basic pre calculus concepts and practice the types of problems you'll encounter in your coursework You get valuable exercises problem solving shortcuts plenty of workspace and step by step solutions to every problem You'll also memorize the most frequently used equations see how to avoid common mistakes understand tricky trig proofs and much more 100s of Problems Detailed fully worked out solutions to problems The inside scoop on quadratic equations graphing functions polynomials and more A wealth of tips and tricks for solving basic calculus problems **EBOOK: College Algebra with Trigonometry** Raymond Barnett, Michael

Ziegler, Karl Byleen, David Sobecki, 2010-03-16 Barnett Ziegler Byleen and Sobecki's College Algebra with Trigonometry text is designed to be user friendly and to maximize student comprehension by emphasizing computational skills ideas and problem solving as opposed to mathematical theory The large number of pedagogical devices employed in this text will guide a student through the course Integrated throughout the text students and instructors will find Explore Discuss boxes which encourage students to think critically about mathematical concepts In each section the worked examples are followed by matched problems that reinforce the concept being taught In addition the text contains an abundance of exercises and applications that will convince students that math is useful A MathZone site featuring algorithmic exercises videos and other resources accompanies the text Young, Precalculus, Third Edition Cynthia Y. Young, 2021-06-21 Precalculus was

developed to create a program that seamlessly aligns with how teachers teach and fully supports student learning Cynthia Young's goal was to create an intuitive supportive product for students without sacrificing the rigor needed for true conceptual understanding and preparation for calculus Precalculus helps bridge the gap between in class work and homework by mirroring the instructor voice outside the classroom through pedagogical features Publisher **Precalculus** Cynthia Y. Young, 2017-11-07 Precalculus was developed to create a program that seamlessly align with how teachers teach and fully supports student learning Cynthia Young's goal was to create an intuitive supportive product for students without sacrificing the rigor needed for true conceptual understanding and preparation for Calculus Precalculus helps bridge the gap between in class work and homework by mirroring the instructor voice outside the classroom through pedagogical features

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