Page #____

Notes Law of Sines (sides)

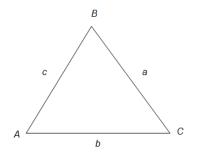
Name:	Date:	Period:
Learning Target:		

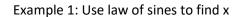
Law of sines works for all triangles (not just right ones)

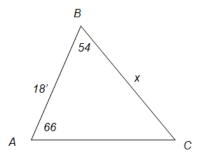
To use law of sines you have to solve proportions To solve a proportion, cross multiply and divide

$$\frac{3}{4} = \frac{x}{8}$$
 $\frac{9}{4} = \frac{27}{x}$

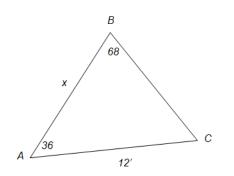
Law of Sines



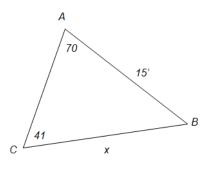


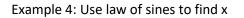


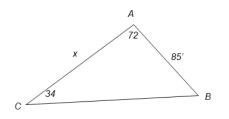
Example 2: Use law of sines to find x



Example 3: Use law of sines to find x



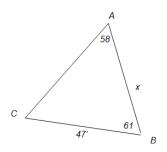




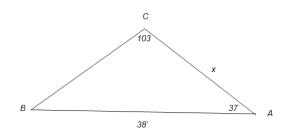
B 75 x 65 125' A

Practice 1: Use law of sines to find x

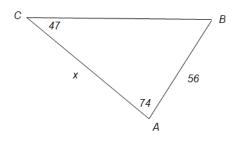
Practice 2: Use law of sines to find x



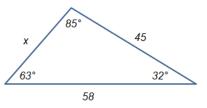
Practice 3: Use law of sines to find x



Practice 4: Use law of sines to find x



5. In the picture below there are 2 ways we can set up an equation to find x. What are the two ways?



• 1. Why is it necessary to use law of sines?

• 2. How many side and angles do we have to know to be able to use law of sines?

• 3. How do you decide which angle goes with which side?

