Law of Sines More oblique triangles When dealing with right triangles, we now know how to use sine, cosine, and tangent to find missing sides and angles

But what happens if it is not a right triangle?

We have two laws to address that. The first one is

 $\frac{\text{Law of Sines}}{\sin A} = \frac{\sin B}{b} = \frac{\sin C}{c}$ 

B

С

Notice the alignment that the lower case letter represents the side opposite the angle with the upper case letter Its as simple as this

## Law of Sines

 $\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$ As before, angle A is opposite side a, angle B is opposite side b, etc. One other formula that comes with this law will be useful in finding the area of a triangle

> Area =  $\frac{1}{2}ab\sin C$  Area =  $\frac{1}{2}bc\sin A$ Area =  $\frac{1}{2}ac\sin B$



