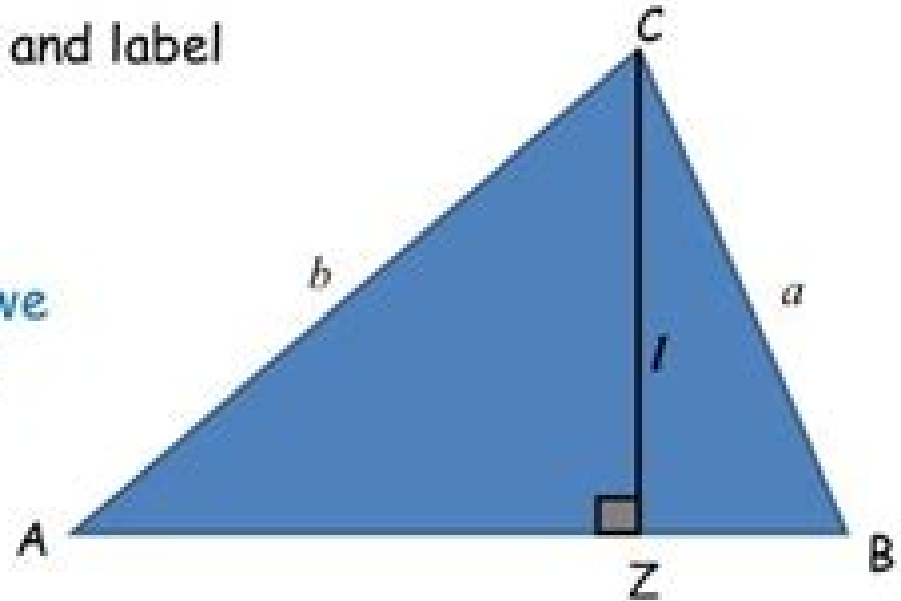


The sine rule

Draw a triangle similar to this one and label the corners A, B and C.

If we divide the triangle with a perpendicular line l from C to AB we create two right-angled triangles; AZC and BCZ.



From the sine 'ratio' we know that:

$$\sin A = \frac{l}{b}$$

$$\text{and } \sin B = \frac{l}{a}$$

$$\text{So } l = b \sin A$$

$$\text{and } l = a \sin B$$


$$\text{Hence } b \sin A = a \sin B$$

Rearranging \rightarrow

$$\frac{a}{\sin A} = \frac{b}{\sin B}$$

Sine 20rules 20using 20triangles

**United States. Naval Academy.
Department of mathematics,Ebon
Elbert Betz**



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