

LAW OF THE SINES



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In any triangle, the sides are proportional to the sines of the opposite angles. That is, in any triangle ABC:

$$\frac{a}{\sin(A)} = \frac{b}{\sin(B)} = \frac{c}{\sin(C)}$$

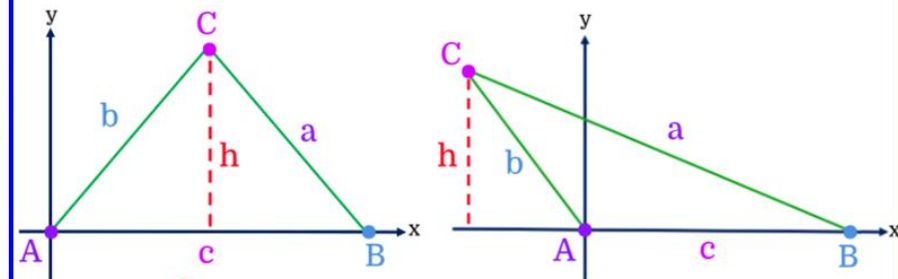
Where: a, b, c are the sides of the triangle.
 A, B, C are the angles of the triangle.



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PROOF



$$\sin(A) = \frac{h}{b} \Rightarrow h = b \sin(A)$$

$$\sin(B) = \frac{h}{a} \Rightarrow h = a \sin(B)$$

Equal values:

$$b \sin(A) = a \sin(B)$$

Hence:

$$\frac{a}{\sin(A)} = \frac{b}{\sin(B)} \checkmark$$

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