

Law of Sines

What is it? Equations that relate the interior angles of a triangle to their corresponding (opposite) sides.

In a triangle, "the ratio of a side to the sine of its opposite angle is the same for all 3 angle/sides"

Law of Sines

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

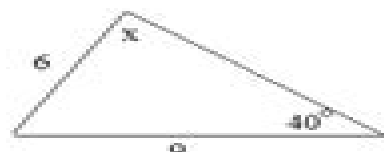


Note: the ratios can be expressed as

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

Examples:

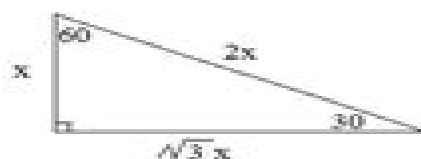
- 1) Given the following triangle, find the measure of angle x.



- 2) Given the following triangle, find the length of s.



- 3) Verify the law of sines for a 30-60-90 triangle.



(Acute triangle)

$$\frac{\sin 40}{6} = \frac{\sin x}{9}$$

$$\sin x = \frac{9(\sin 40)}{6} = .964$$

$$x = \arcsin(.964) = 73.74^\circ$$

(Obtuse triangle)

First, we must identify the measure of the angle opposite 8...

$$180 = 137 + 20 + ?$$

The angle opposite is 23 degrees...

then, we can use law of sines:

$$\frac{\sin 23^\circ}{8} = \frac{\sin 137^\circ}{s}$$

$$s = \frac{8(\sin 137)}{\sin 23} = 13.96$$

(Right triangle)

$$\frac{\sin 90^\circ}{2x} = \frac{\sin 30^\circ}{x} = \frac{\sin 60^\circ}{\sqrt{3}x}$$

$$\begin{array}{ccc} \downarrow & & \downarrow \\ \frac{1}{2x} & = & \frac{1/2}{x} = \frac{\sqrt{3}/2}{\sqrt{3}x} \\ & \searrow & \swarrow \\ & \frac{1}{2x} & \end{array}$$

Law Of Sines Word Problems

AW Chickering



Law Of Sines Word Problems:

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