

Solving Oblique Triangles

When solving oblique triangles, we break the problem down into a number of cases:

AAS - two angles given, and one side.

(Also the American Astrological society.)

ASS - one angle and the two follow sides given

(Also known as a donkey.)

SAS - two sides and the angle between them given.

(Also the British version of the special forces.)

SSS - all sides given.

(Also the Saffir-Simpson (Hurricane) Scale.)

Why don't we consider the AAA case?

Notes

Solving AAS Triangles

To solve AAS triangles, we use the law of Sines.

Definition

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

Usually we use two of the three fractions to set up an equation where three out of the four values are known.

Notes

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