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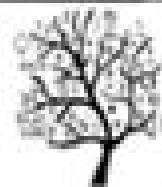
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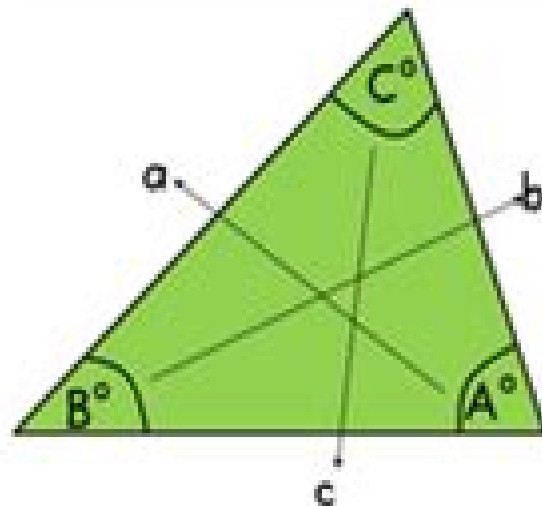
Cosine rule

Finding Sides

$$a^2 = b^2 + c^2 - 2bcCosA$$

To find sides you need:
2 sides and 1 angle

Finding Angles

$$cosA = \frac{b^2 + c^2 - a^2}{2bc}$$

To find angles you need:
3 sides

Sine rule

$$\frac{a}{sinA} = \frac{b}{sinB} = \frac{c}{sinC}$$

$$\frac{sinA}{a} = \frac{sinB}{b} = \frac{sinC}{c}$$

To find sides you need
1 side and 2 angle

To find angles you need
2 sides and 1 angle

You only need to use 2 of the 3 fractions given here!

Area of a triangle

$$\tfrac{1}{2} \times a \times b \times sinC°$$

Non Right Angled Triangle Trigonometry

Beverly Langsford Willing,Catherine Smith

Non Right Angled Triangle Trigonometry:

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