

Spike's Trianglesolver

All triangles

Remember!
Angles of triangle add to 180°

Area of Triangle
Area = 0.5bc sin A

Right angle

No right angle

No angle involved

Angle involved

All three sides involved

Only two sides involved

$A^2 + B^2 = H^2$
(Pythagoras Theorem)

S O H C A H T A

Asked for angle

Asked for side

Asked for angle

Asked for side

Cosine Rule
 $\cos A = \frac{b^2 + c^2 - a^2}{2bc}$

Cosine Rule
 $a^2 = b^2 + c^2 - 2bc \cos A$

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

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

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