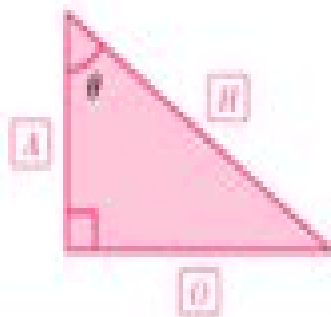


Trigonometry Formulas

Trigonometry formulas are relationships between the parts of a triangle including the side lengths, angles and the area.

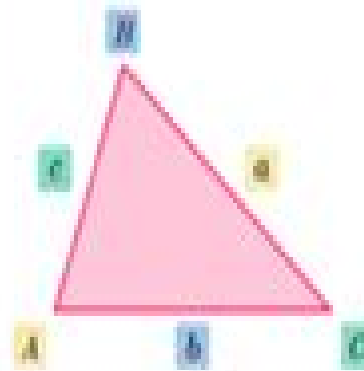
Right-Angled Triangles



$$\sin \theta = \frac{O}{H} \quad \cos \theta = \frac{A}{H}$$

$$\tan \theta = \frac{O}{A}$$

Non-Right Angled Triangles



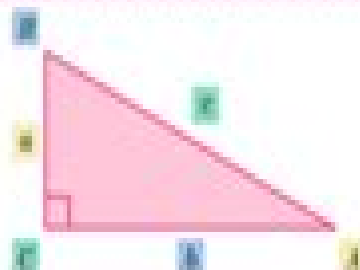
Sine Rule

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

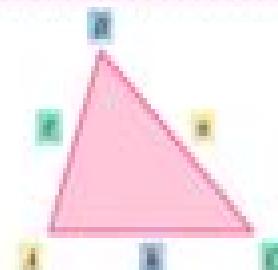
Cosine Rule

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

Area of a Triangle



$$\text{Area} = \frac{1}{2} ab \sin(C)$$



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Daniel F McAuley



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