

Special Ratios

Sine Rule: $a / \sin A = b / \sin B = c / \sin C$

Cosine Rule (Gives us the 3rd side): $a^2 = b^2 + c^2 - 2bc \cos A$

OR

Cosine Rule (Gives us the angle's size): $\cos A = \frac{b^2 + c^2 - a^2}{2bc}$

Area Rule (Same as Cosine Rule BUT cannot use it with "3rd side" condition!): $\frac{1}{2} \times ab \sin C$

Angles of Elevation & Depression

- The dotted lines are seen as stg. lines, therefore 90 degrees can be between it & another line!

- Parallel lines appear often so look out for those! (Z, F U)

NB the following reason: Angles on a stg. line

NB the following reasons: Angles in a triangle

Normal Ratios

Sine $\sin \theta = \text{Opp.} / \text{Hyp.}$

Cosine $\cos \theta = \text{Adj.} / \text{Hyp.}$

TANGENT $\tan \theta = \text{Opp.} / \text{Adj.}$

Soh Cah Toa



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