

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

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

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

Soh Cah Toa

C

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