8.6.notebook July 31, 2013

The Law of Sines

In $\triangle ABC$, with sides a, b, c representing the lengths of the opposite sides of $\angle A$, $\angle B$, and $\angle C$, respectively. Then,

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

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The Law of Cosines

In $\triangle ABC$, with sides a, b, c representing the lengths of the opposite sides of $\angle A$, $\angle B$, and $\angle C$, respectively. Then,

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

 $b^{2}=a^{2}+c^{2}-2ac \cos B$
 $c^{2}=a^{2}+b^{2}-2ab \cos C$