

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

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

$$
\cos C=\frac{a^{2}+b^{2}-c^{2}}{2 a b}
$$

