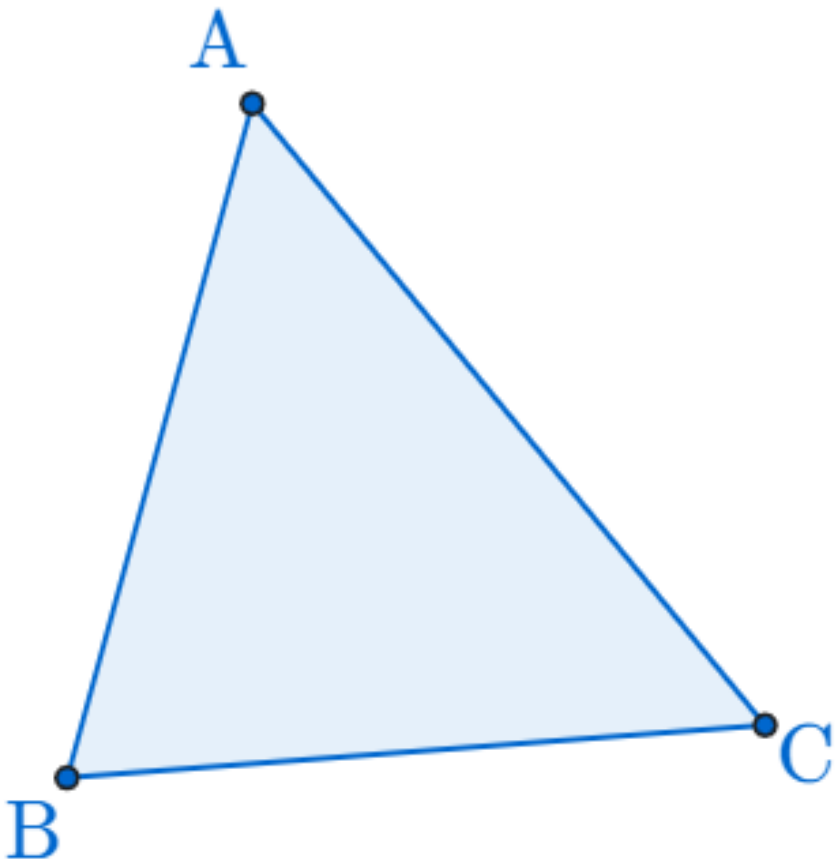
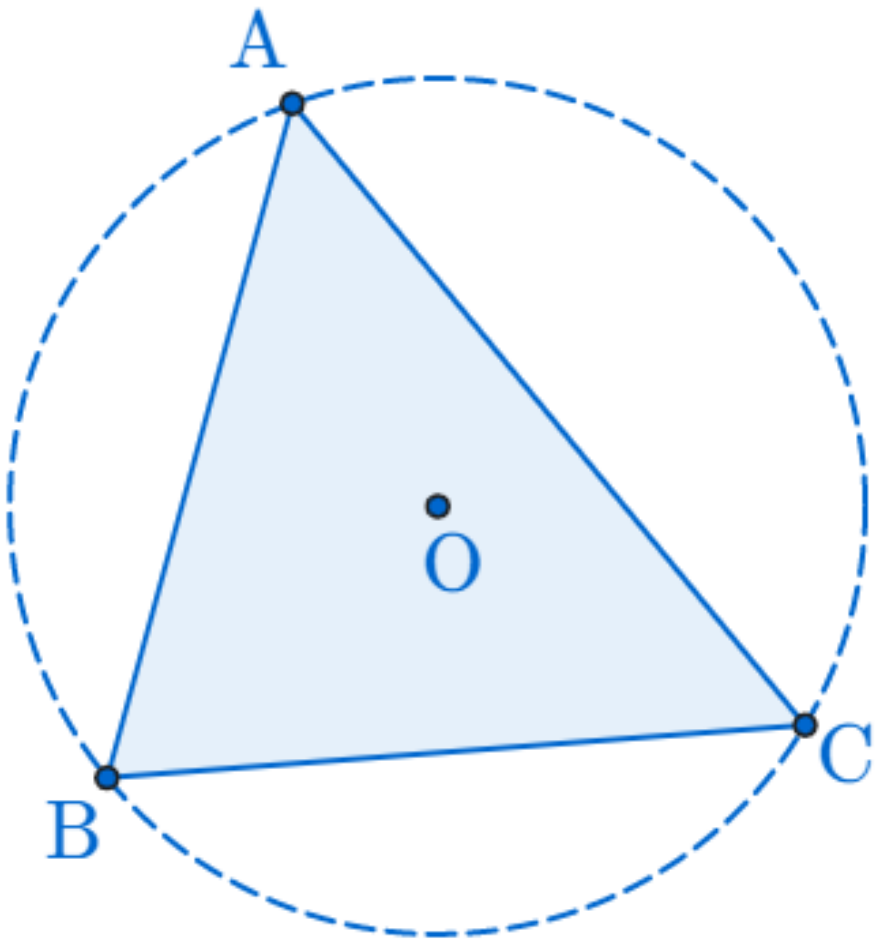
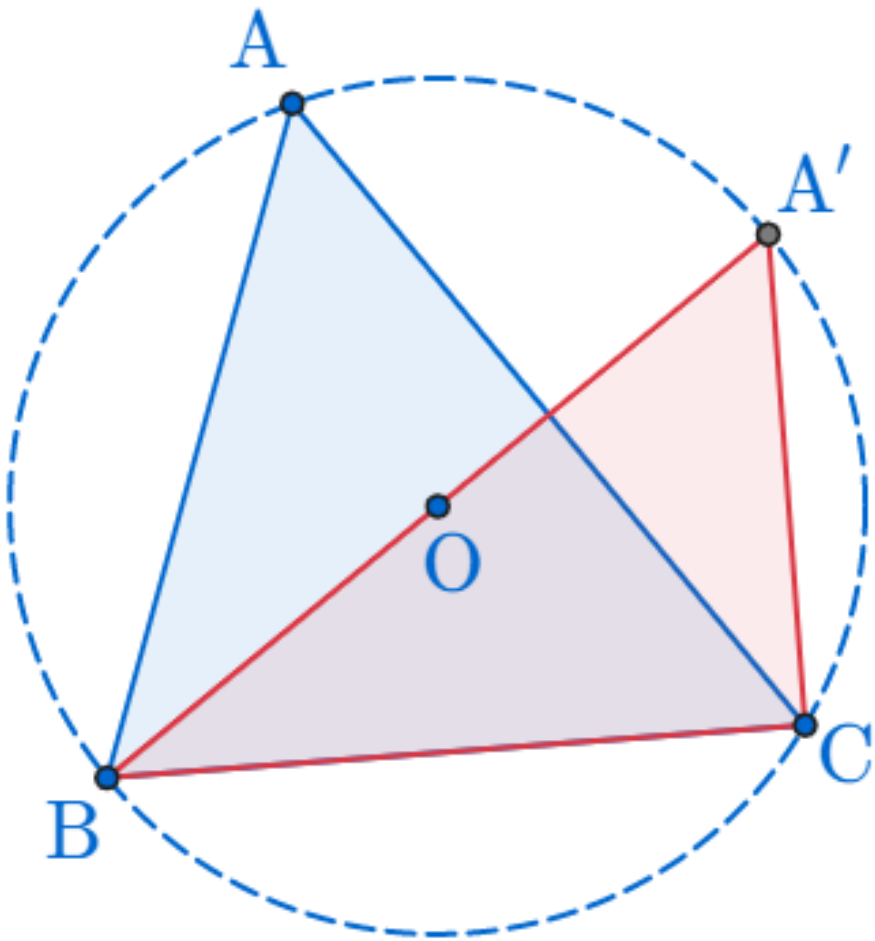
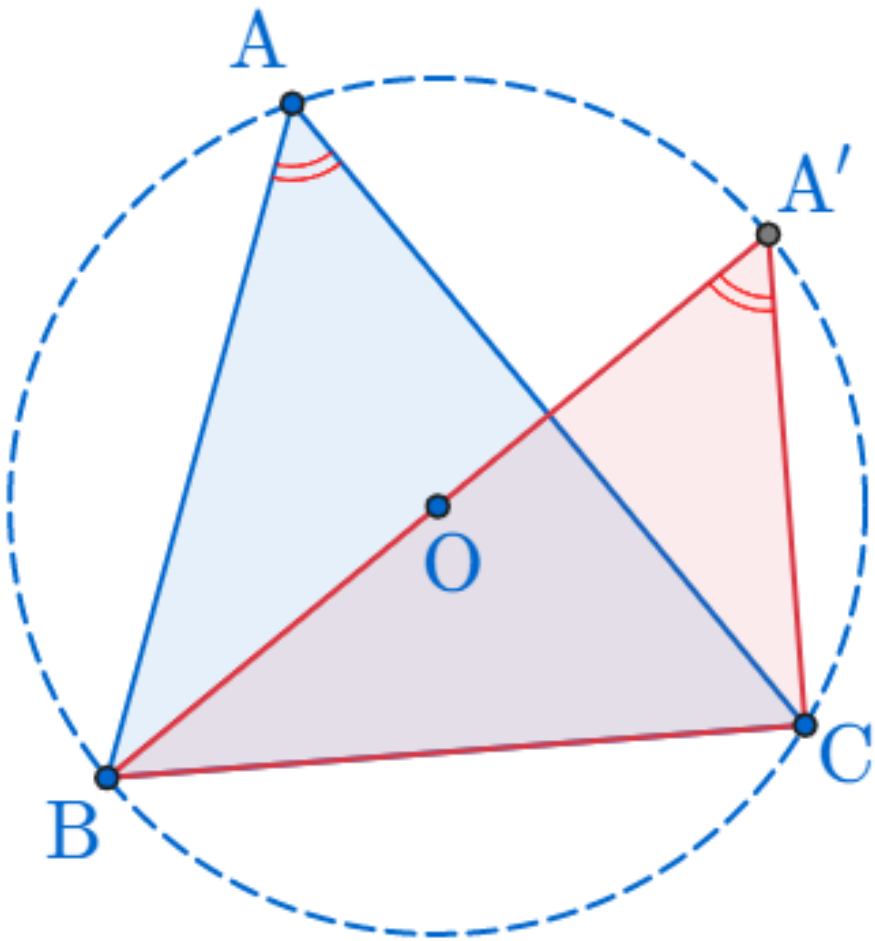
예각에 대한 사인법칙
(The Law of Sines for Acute Angle)

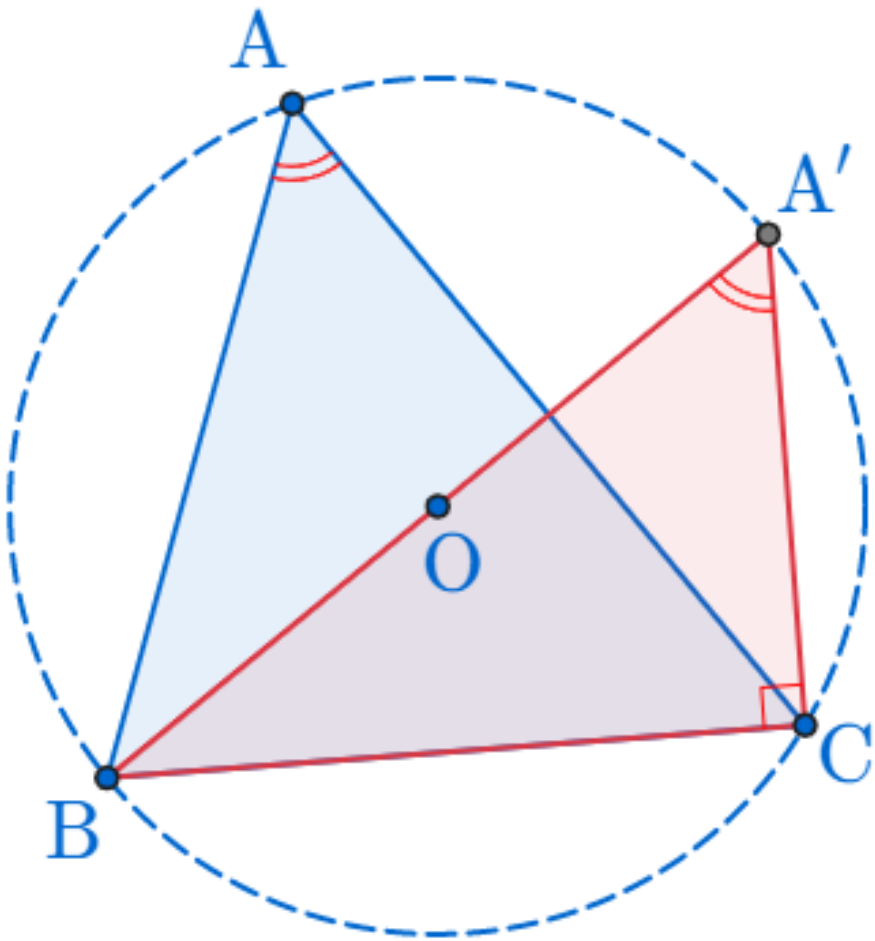
The Law of Sines for Acute Angle

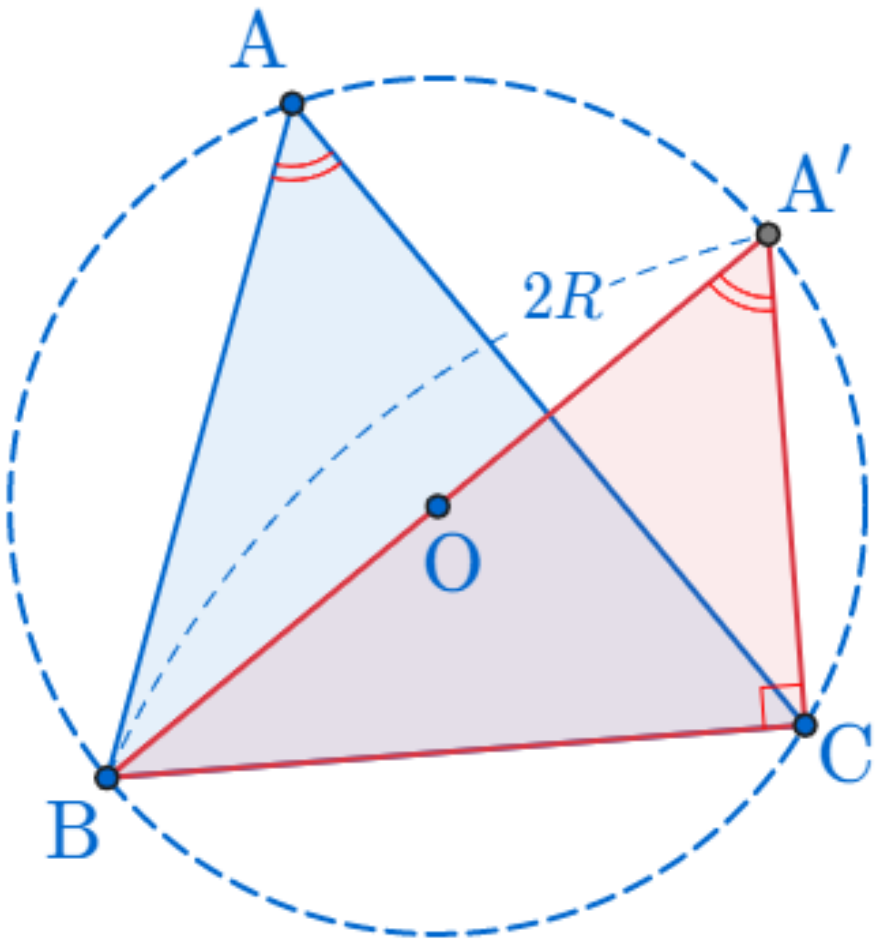

A
B
C

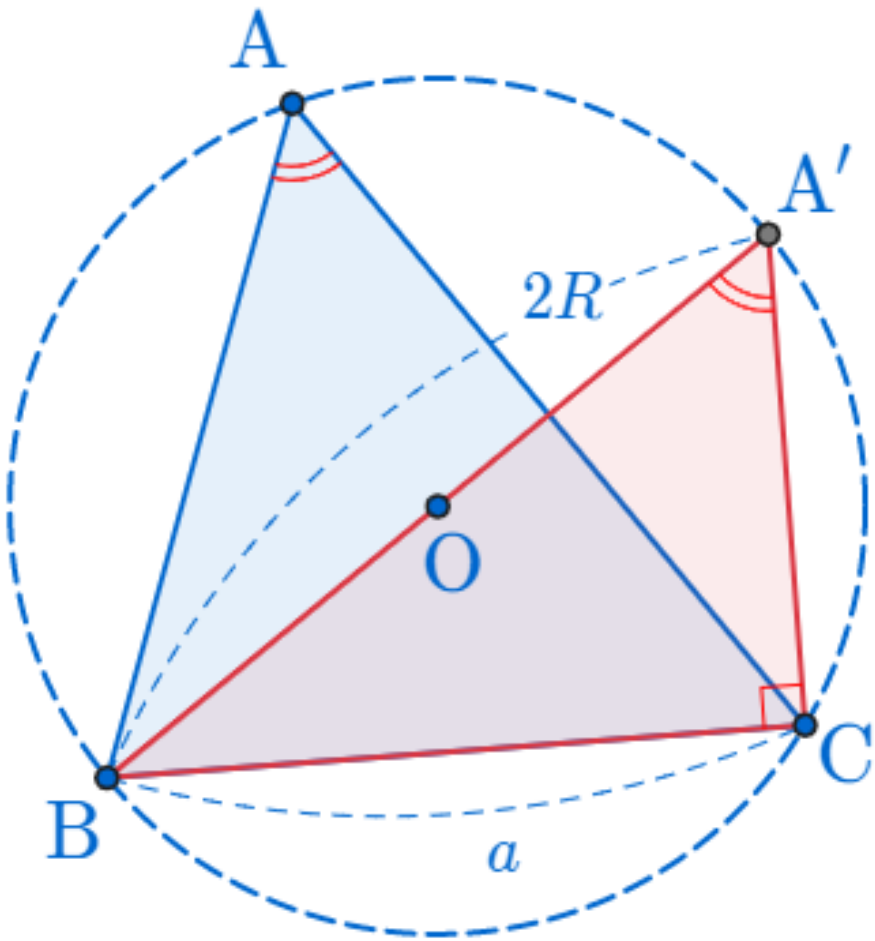

A
O
B
C

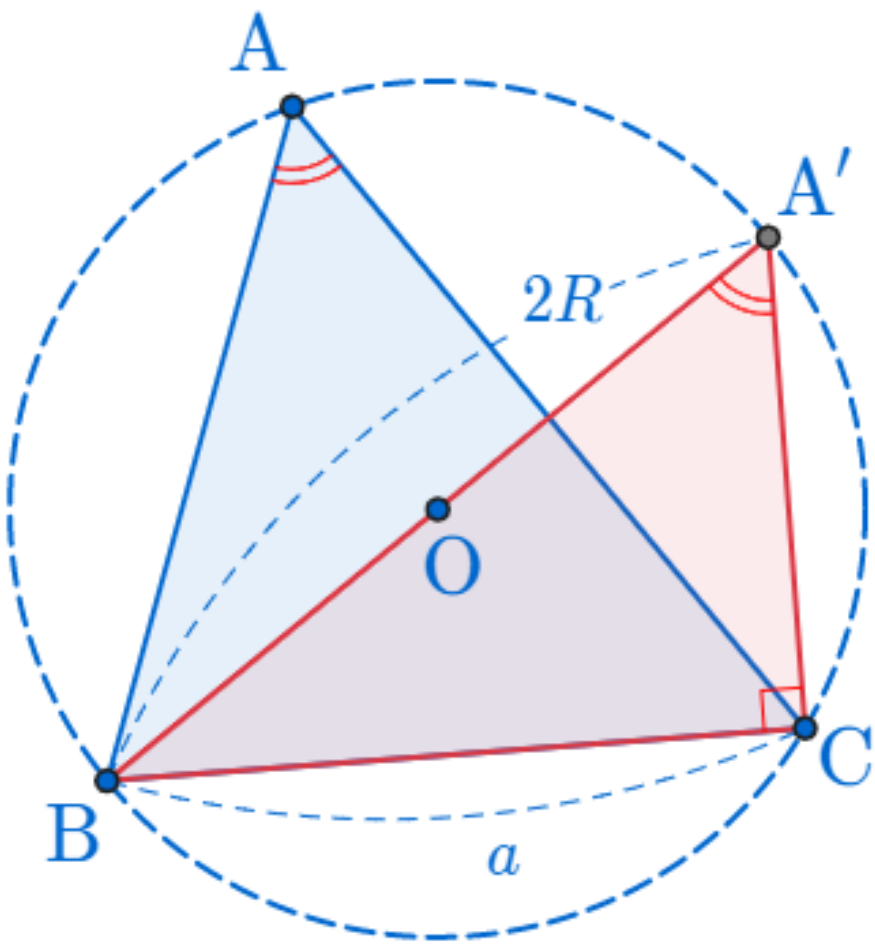

A
A′
O
B
C


A
A′
O
B
C

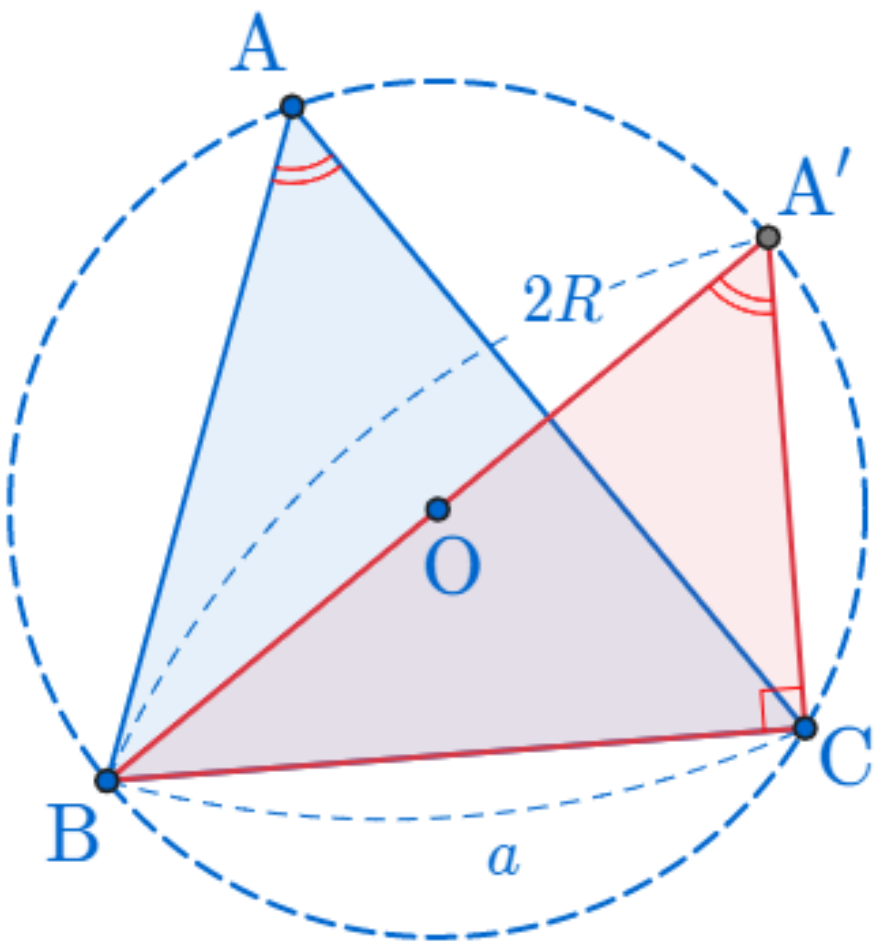

A
A′
O
B
C


A
A′
2R
O
B
C


A
A′
2R
O
B
C
a

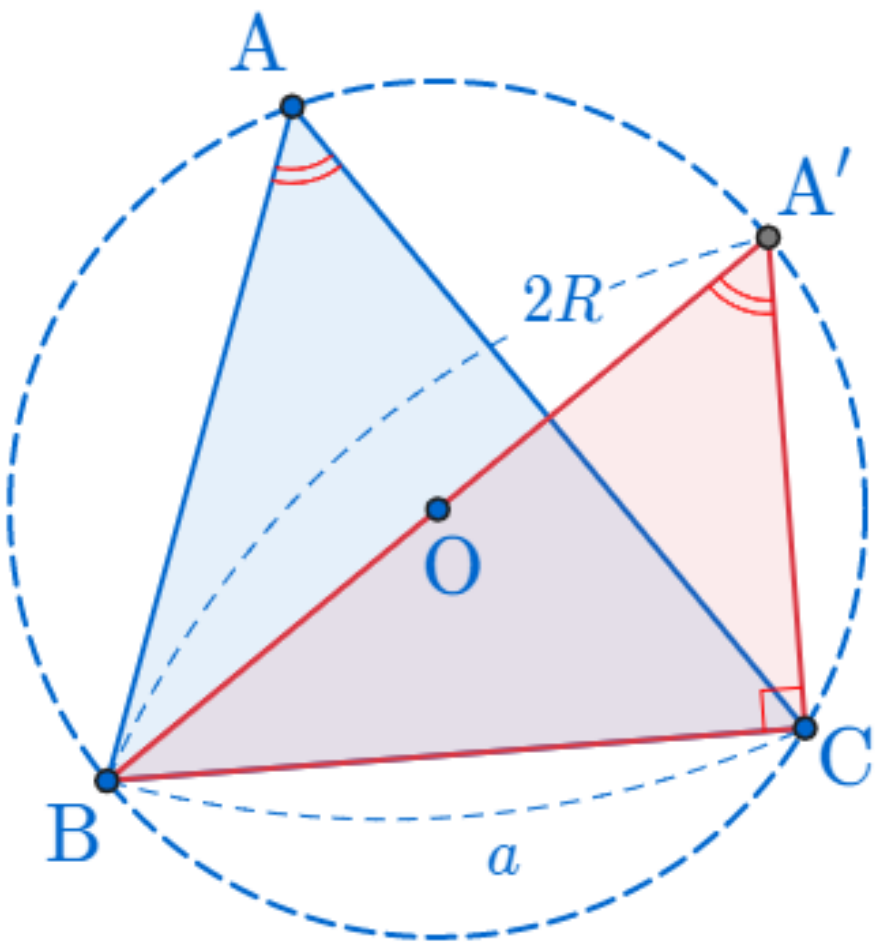


$$\sin A = \sin A'$$



$$\sin A = \sin A'$$

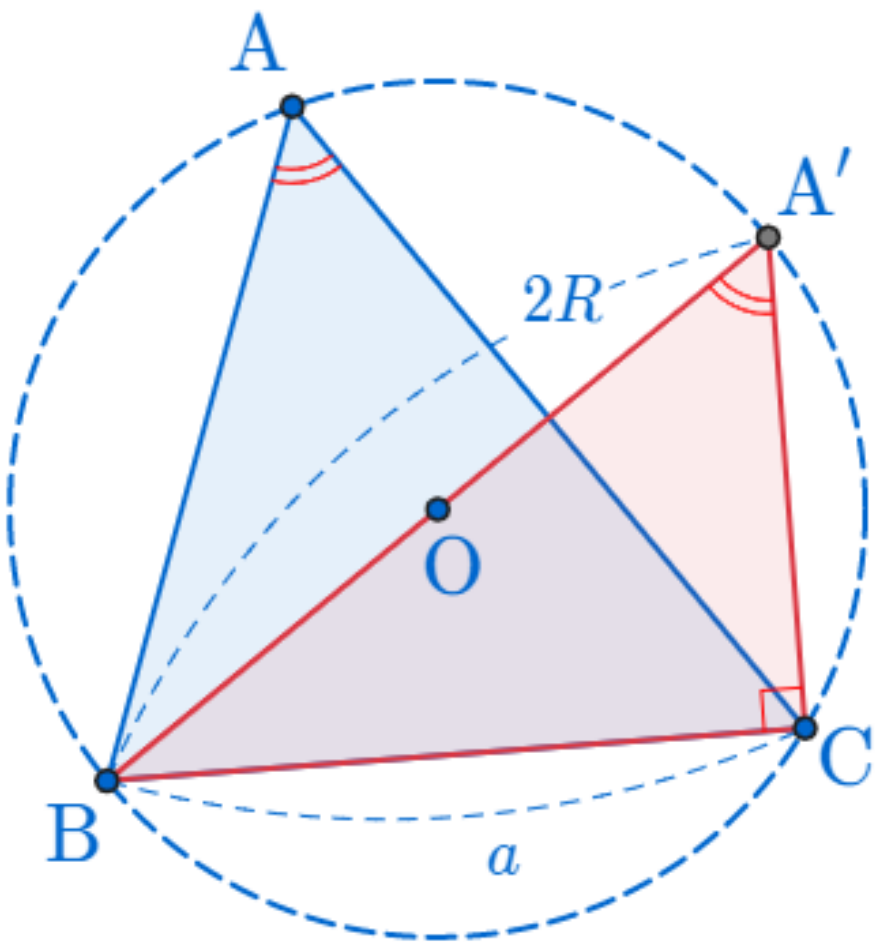
$$= \frac{\overline{\mathrm{BC}}}{\overline{\mathrm{BA'}}}$$



$$\sin A = \sin A'$$

$$= \frac{\overline{\mathrm{BC}}}{\overline{\mathrm{BA'}}}$$

$$= \frac{a}{2R}$$



$$\sin A = \sin A'$$

$$= \frac{\overline{\mathrm{BC}}}{\overline{\mathrm{BA'}}}$$

$$= \frac{a}{2R}$$

$$\therefore \frac{a}{\sin A} = 2R$$

Github:
https://min7014.github.io/math2020111001.html

Click or paste URL into the URL search bar, and you can see a picture moving.