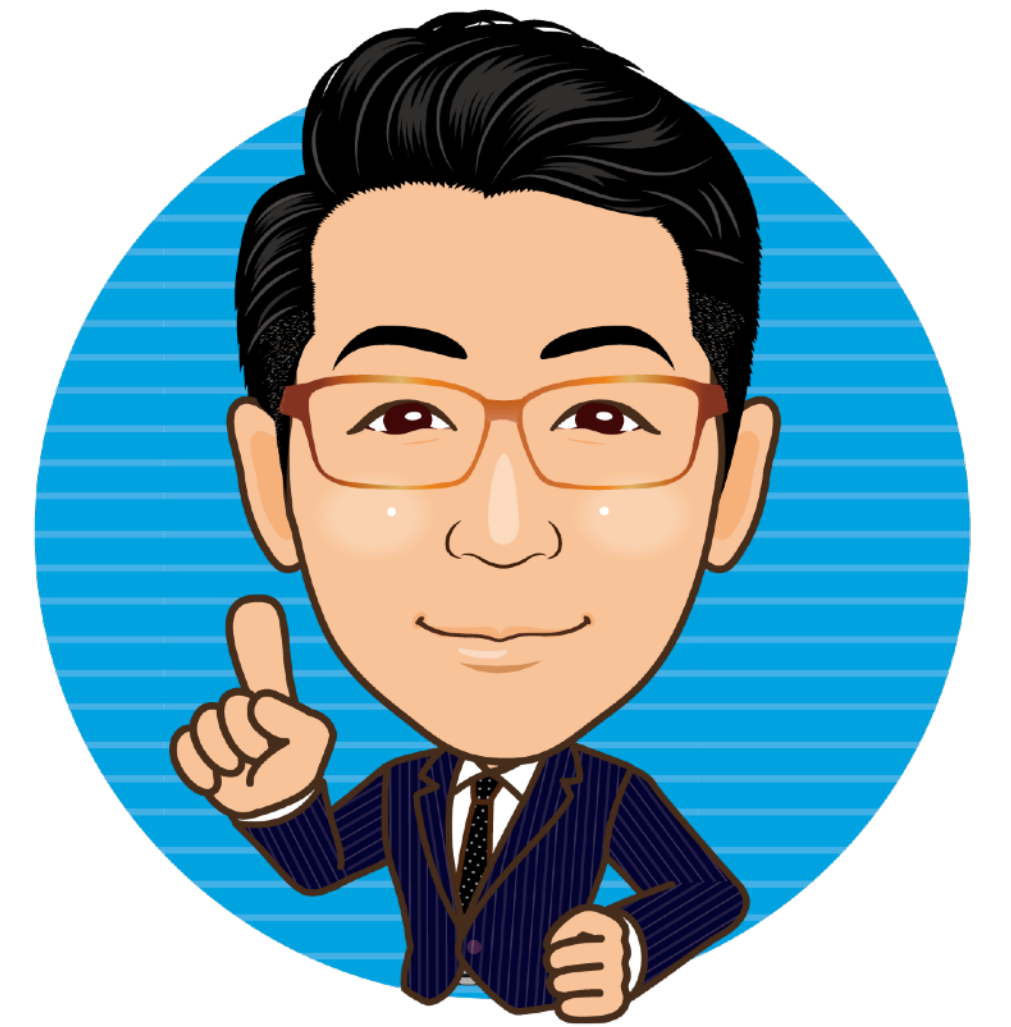




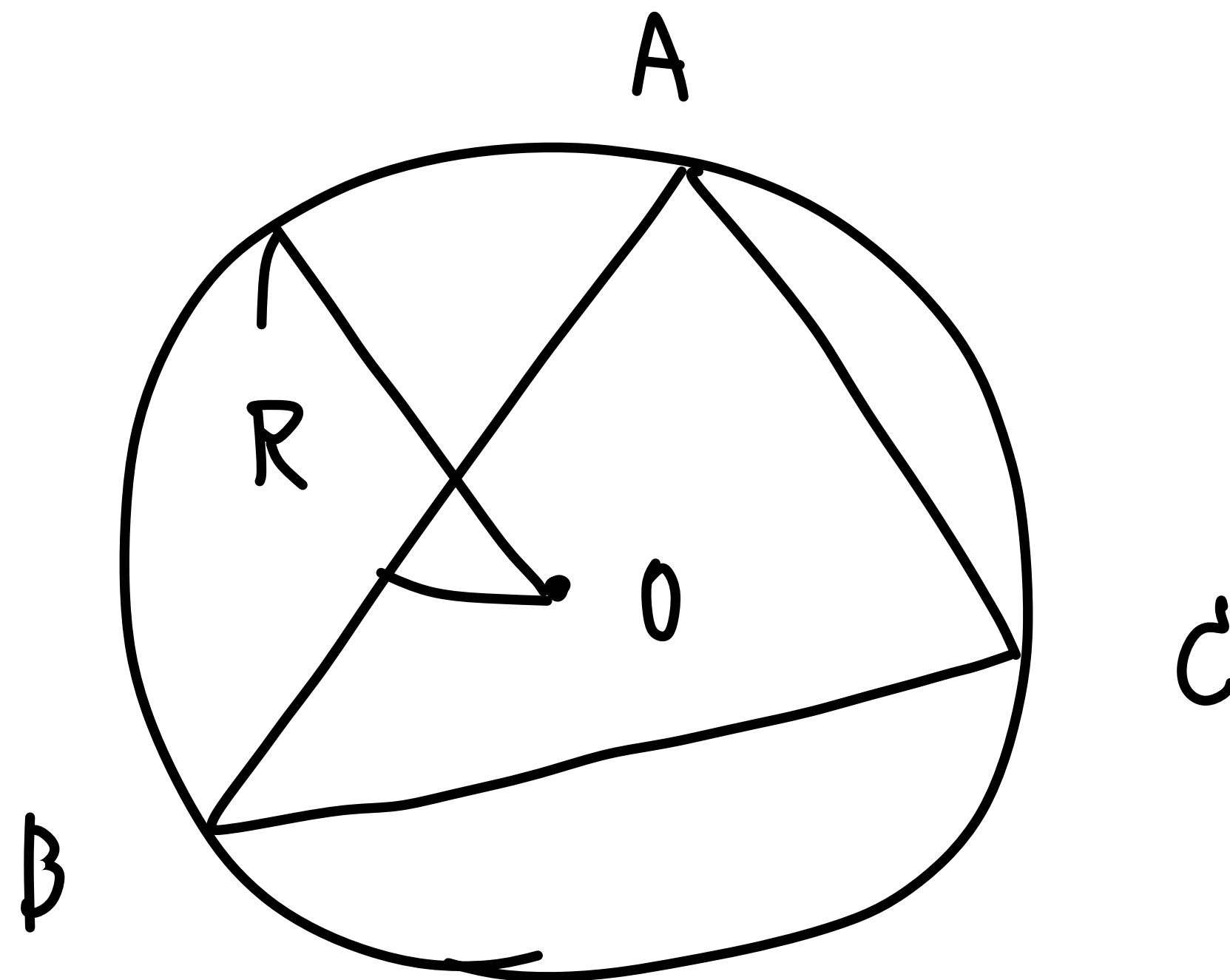
数学I

第4章 図形と計量

正弦定理



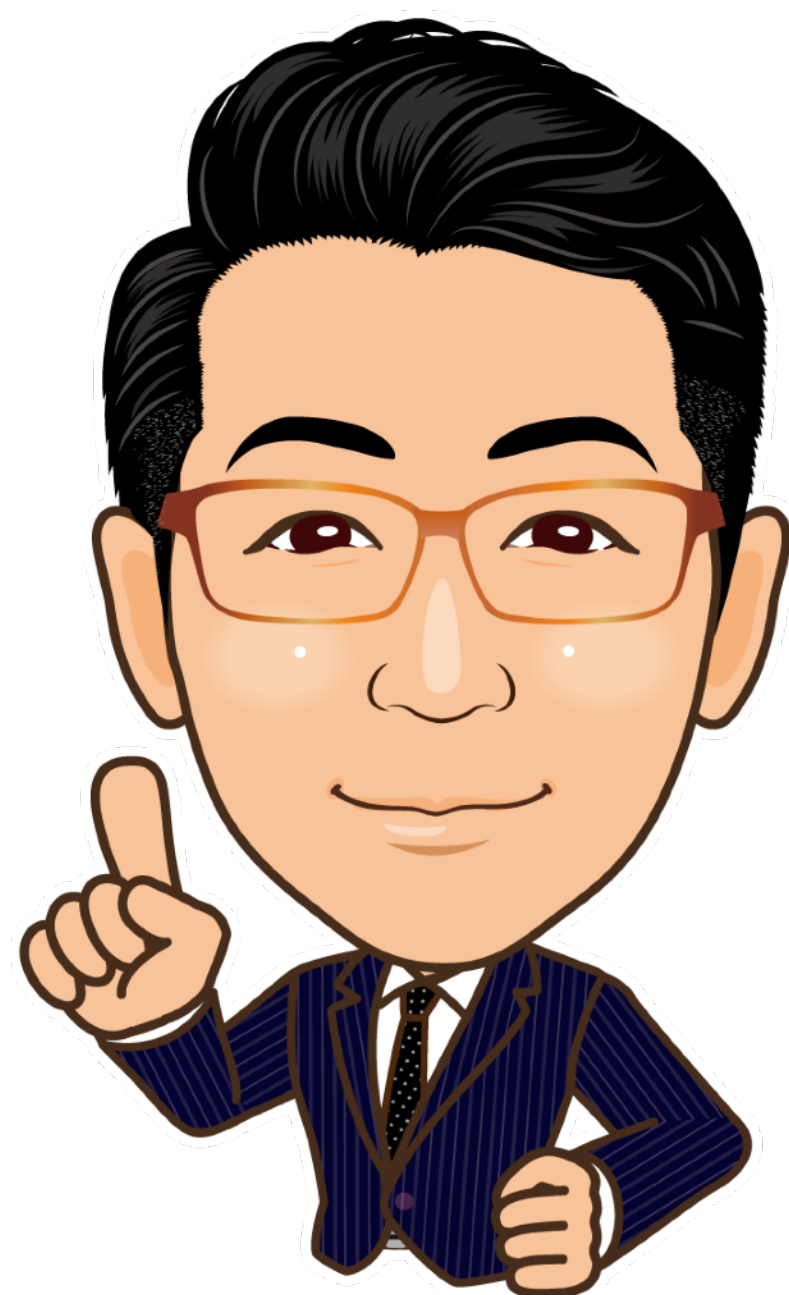
$\left\{ \begin{array}{l} \sin \text{ (正弦)} \\ \cos \text{ (余弦)} \\ \tan \text{ (正切)} \end{array} \right.$

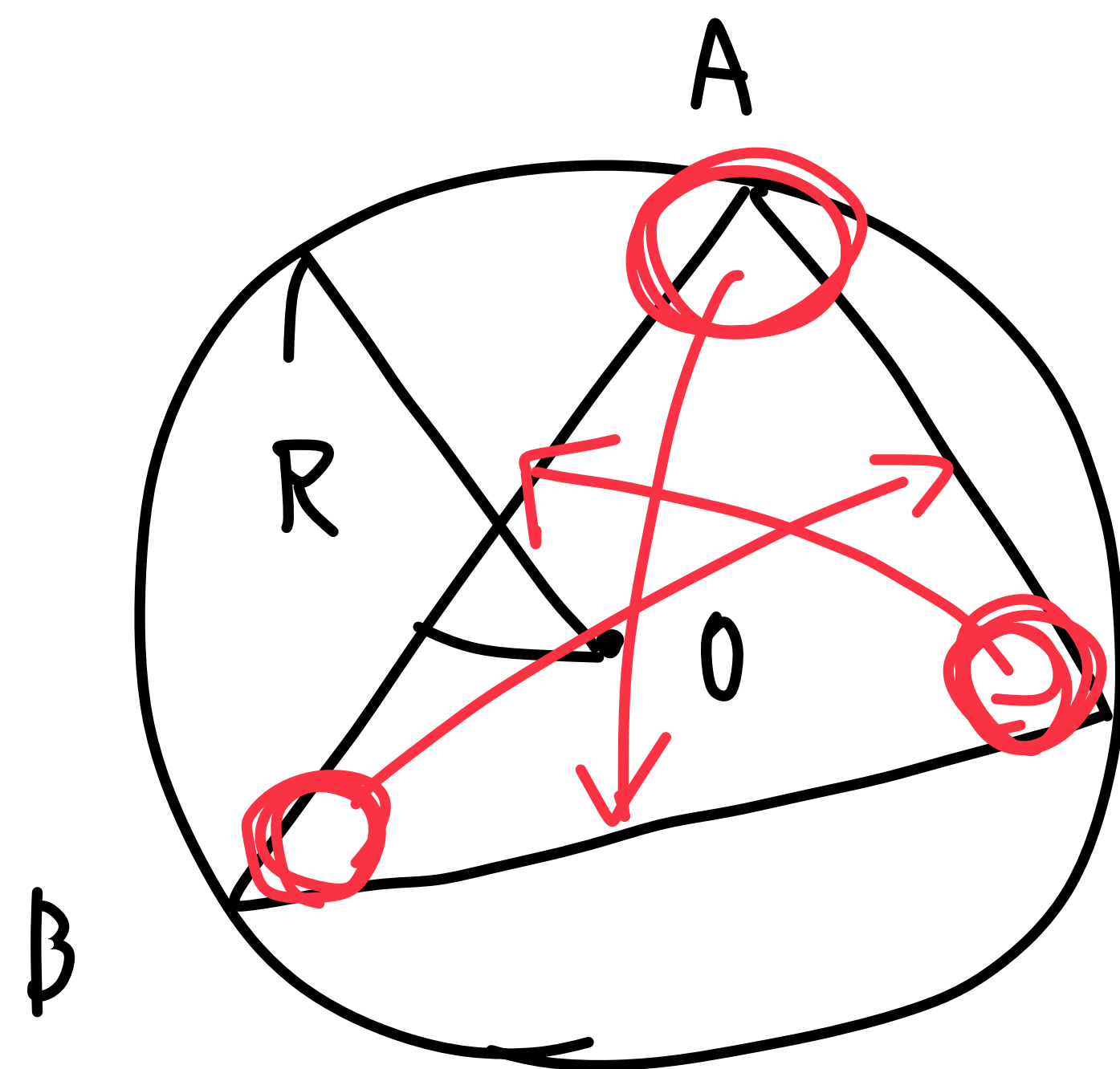


【正弦定理】

$\triangle ABC$ の外接円の半径 R

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C} = 2R$$



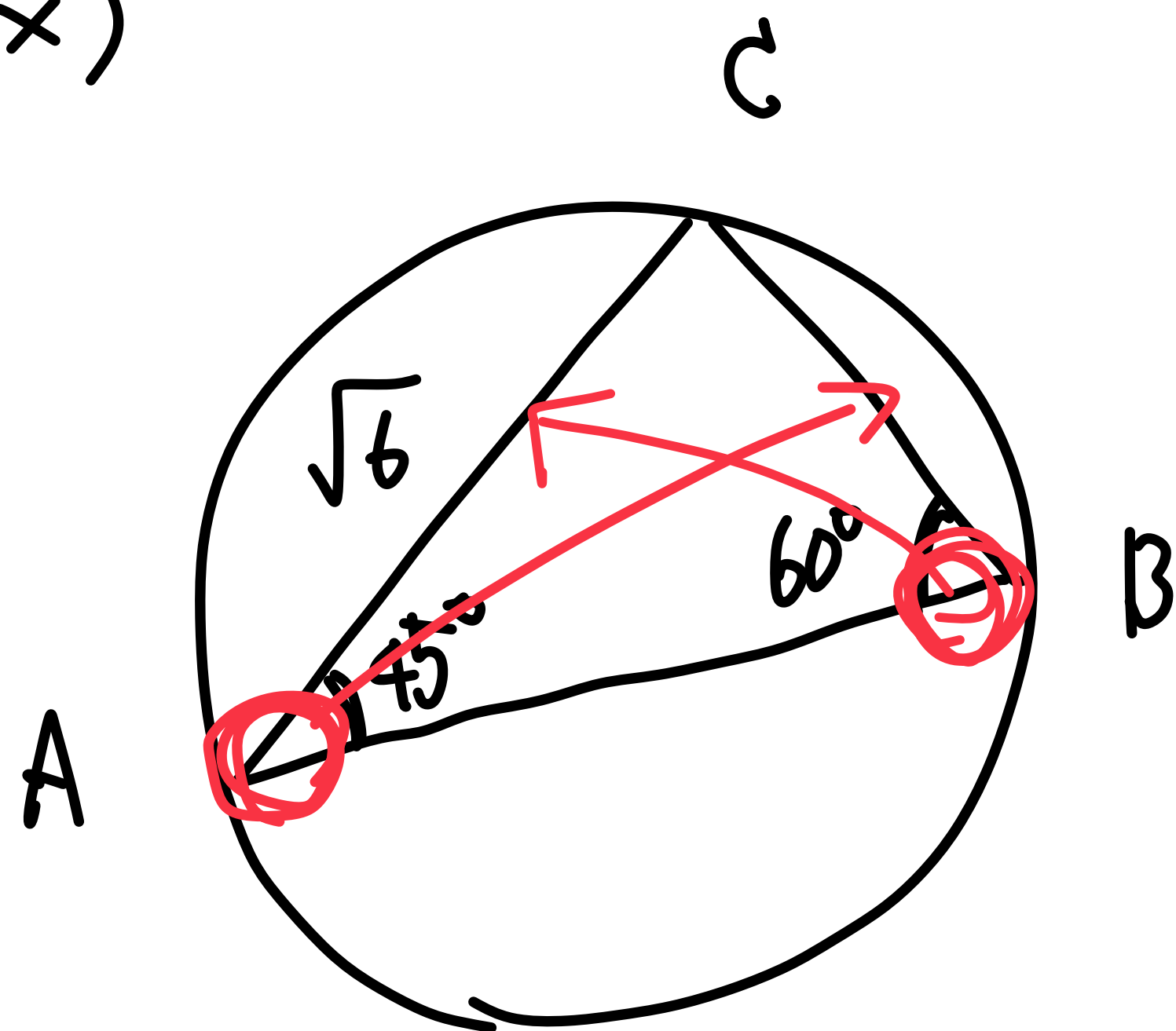


$\triangle ABC$ の外接円、半径 R

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C} = 2R$$



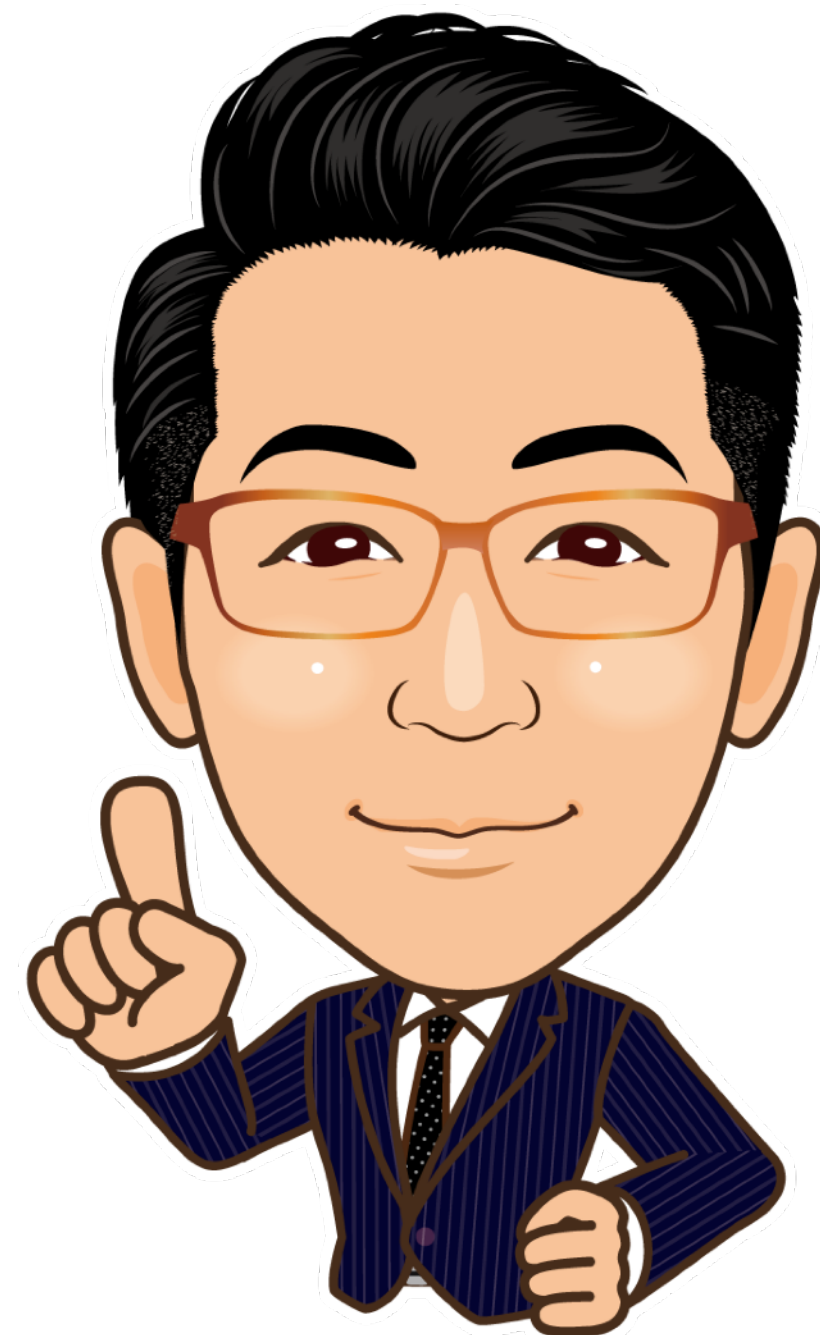
(bx)



$$\frac{BC}{\sin 45^\circ} = \frac{\sqrt{6}}{\sin 60^\circ}$$

$$BC = \frac{\sqrt{6}}{\frac{\sqrt{3}}{2}} \times \frac{1}{\sqrt{2}} = 2$$

$$\underline{\underline{BC = 2}}$$



$$\frac{2}{\sin 45^\circ} = 2R$$

$$R = \frac{1}{\sin 45^\circ} = \sqrt{2}$$

$$\underline{\underline{R = \sqrt{2}}}$$