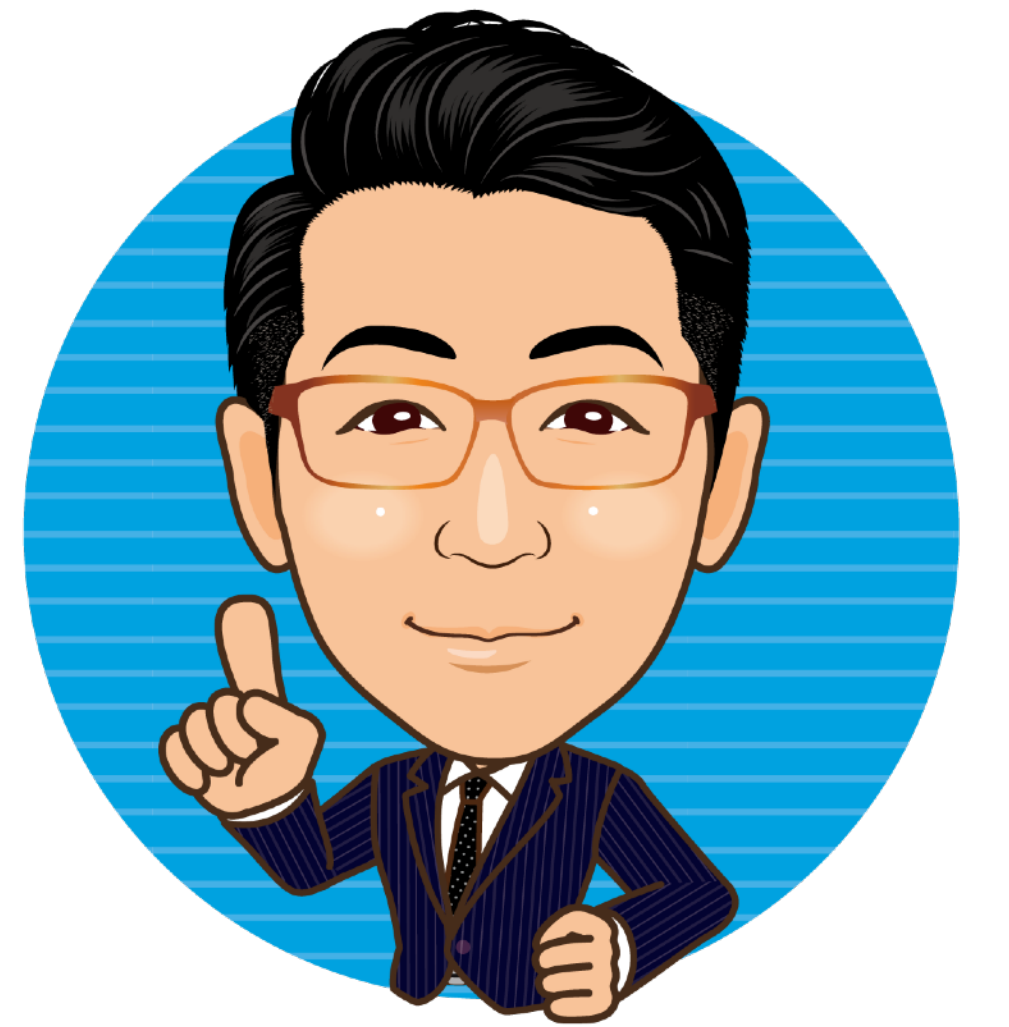




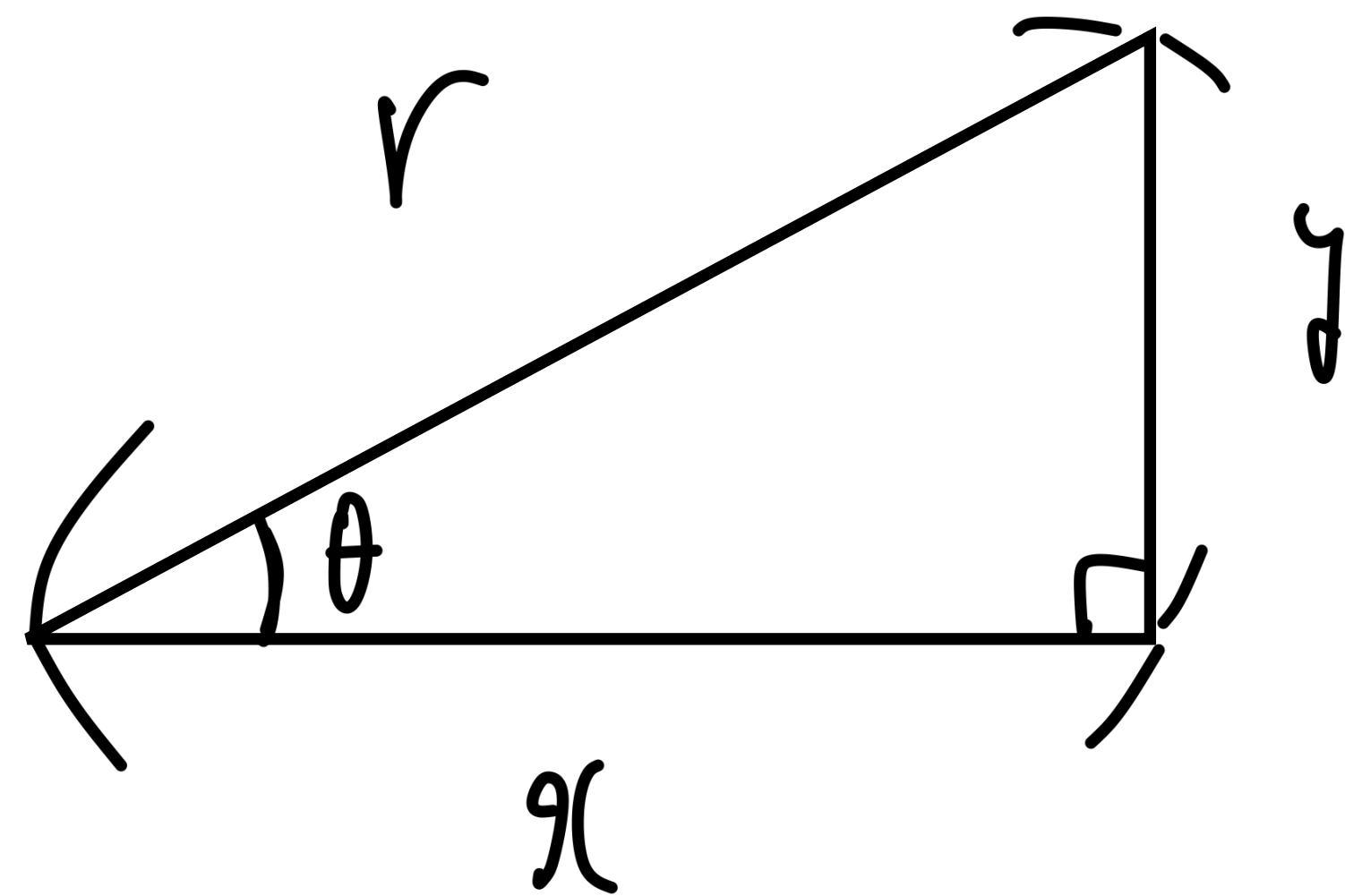
数学I

第4章 図形と計量

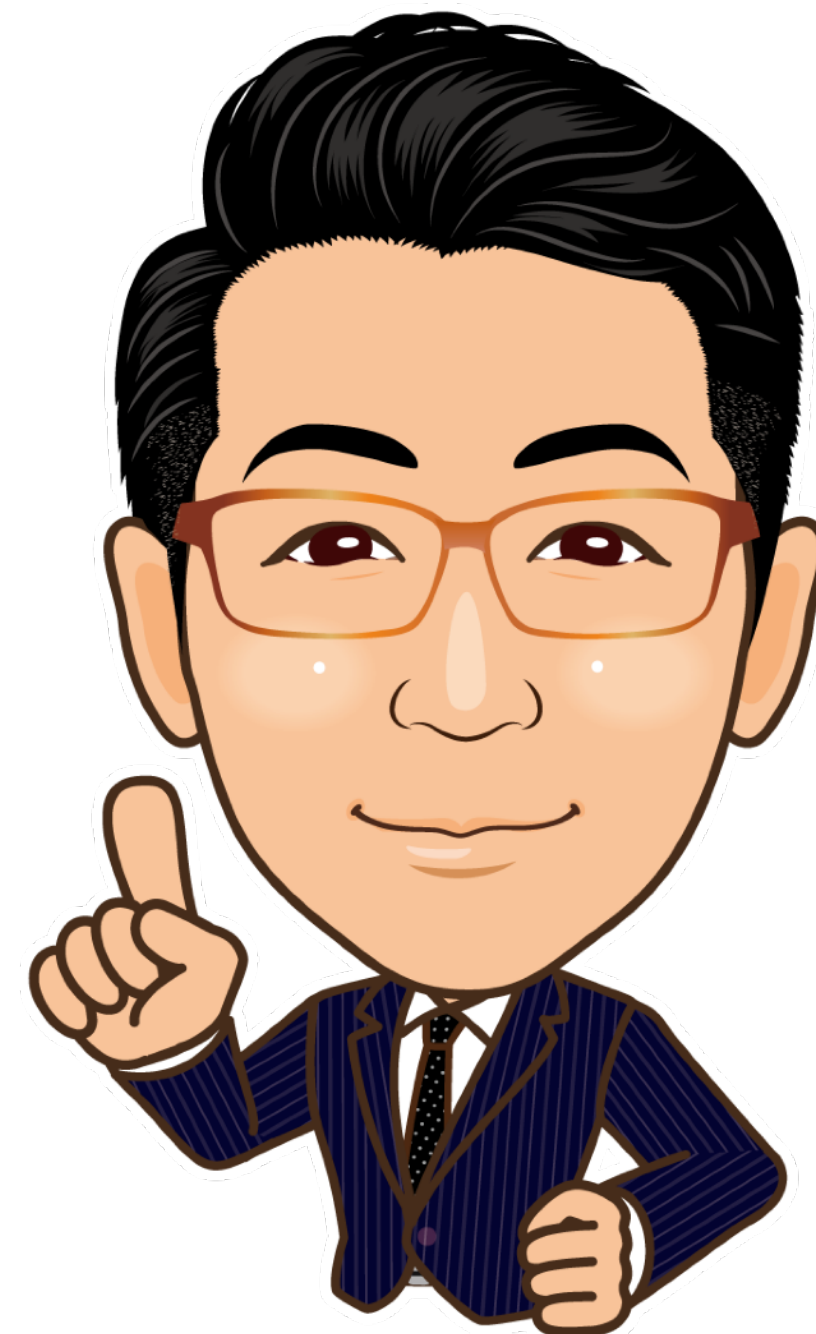
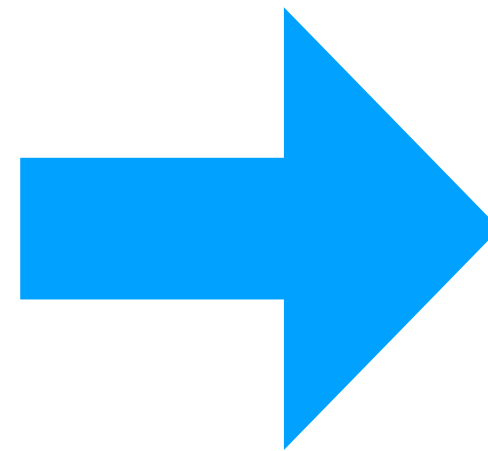
単位円



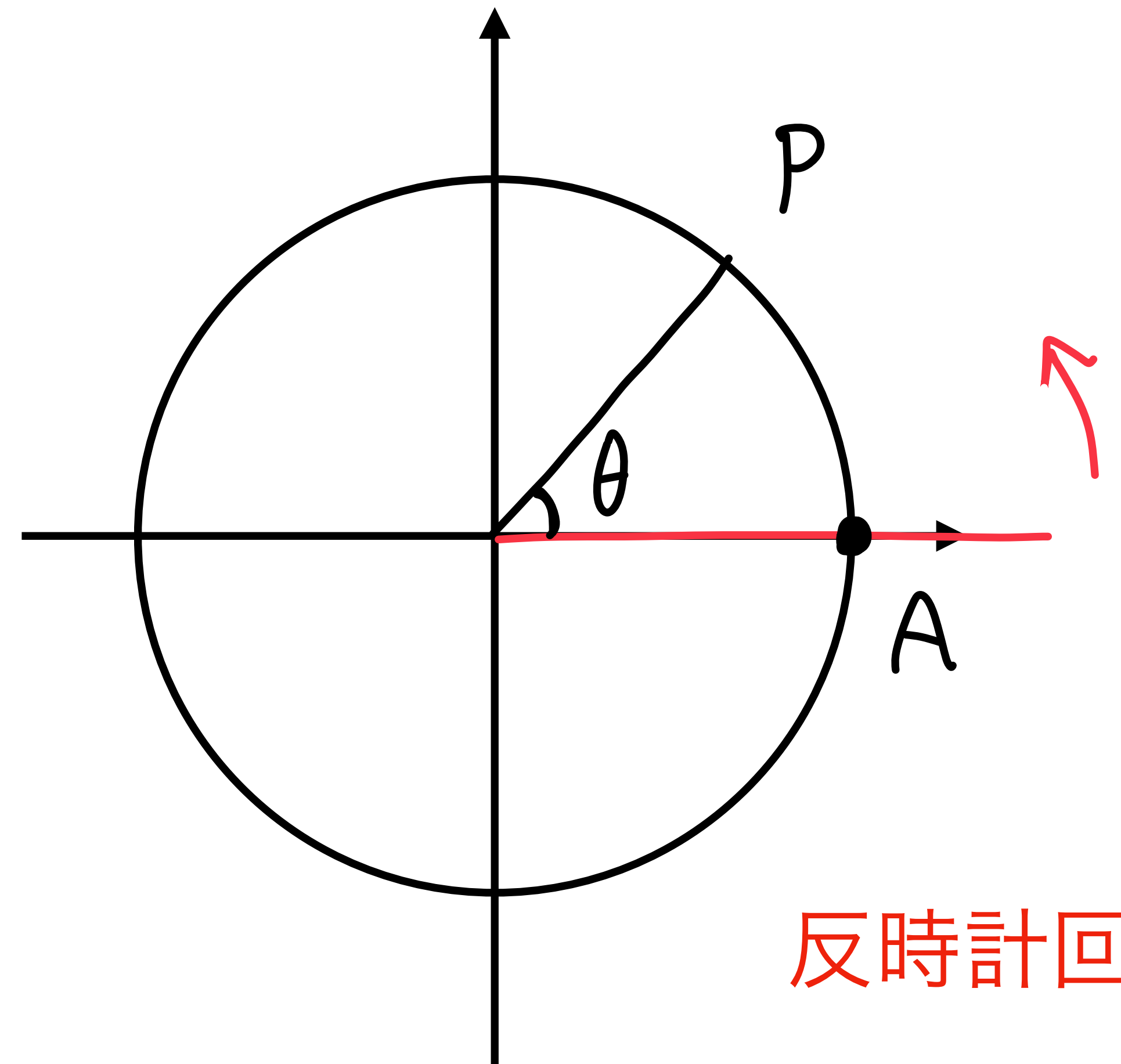
<今まで>



$$\sin \theta = \frac{y}{r}, \quad \tan \theta = \frac{y}{x}$$
$$\cos \theta = \frac{x}{r}$$

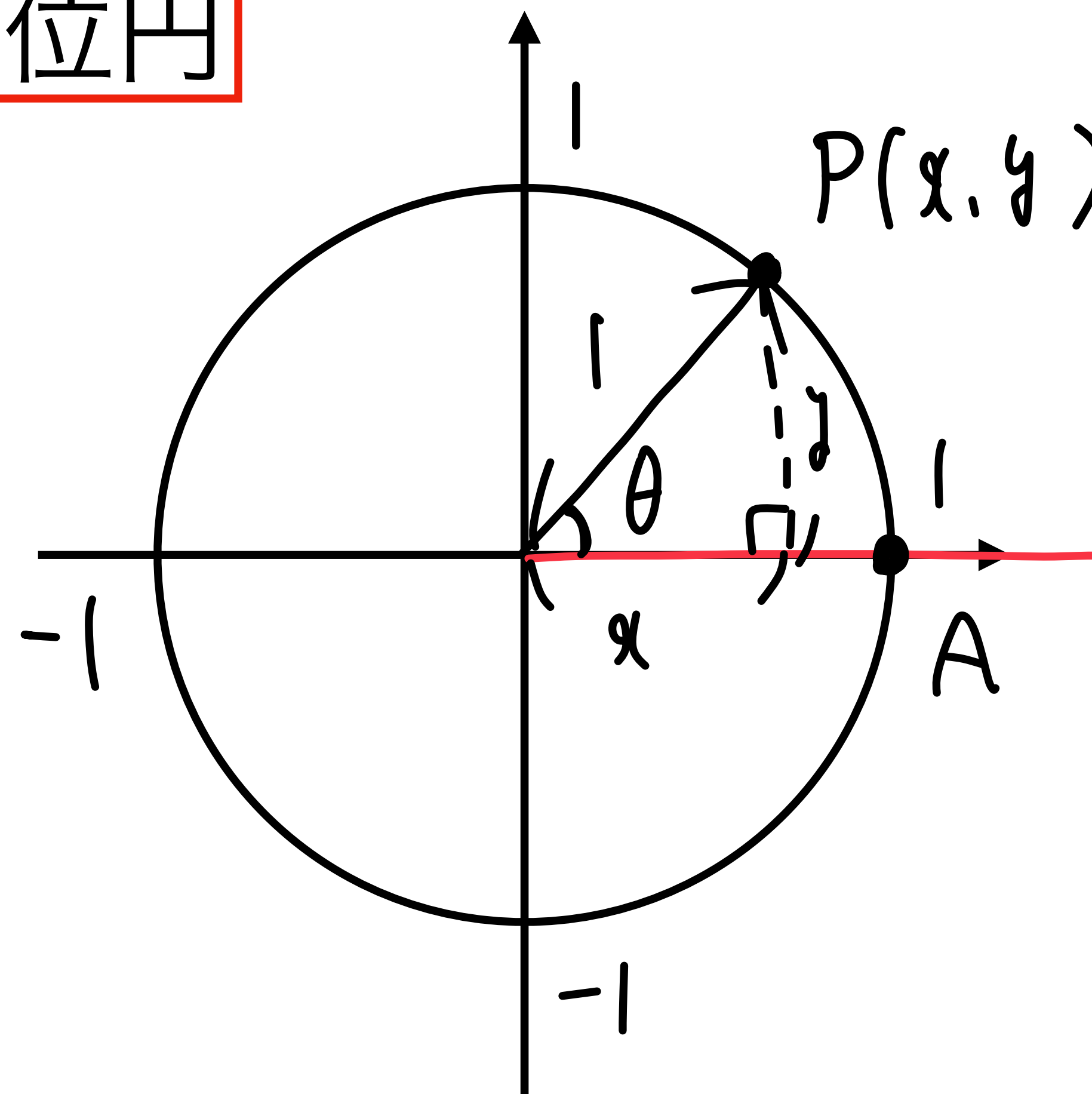
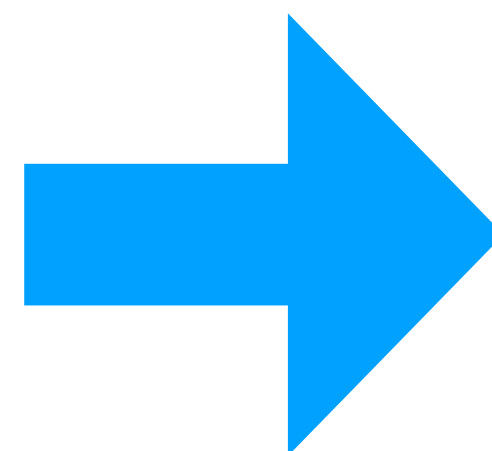
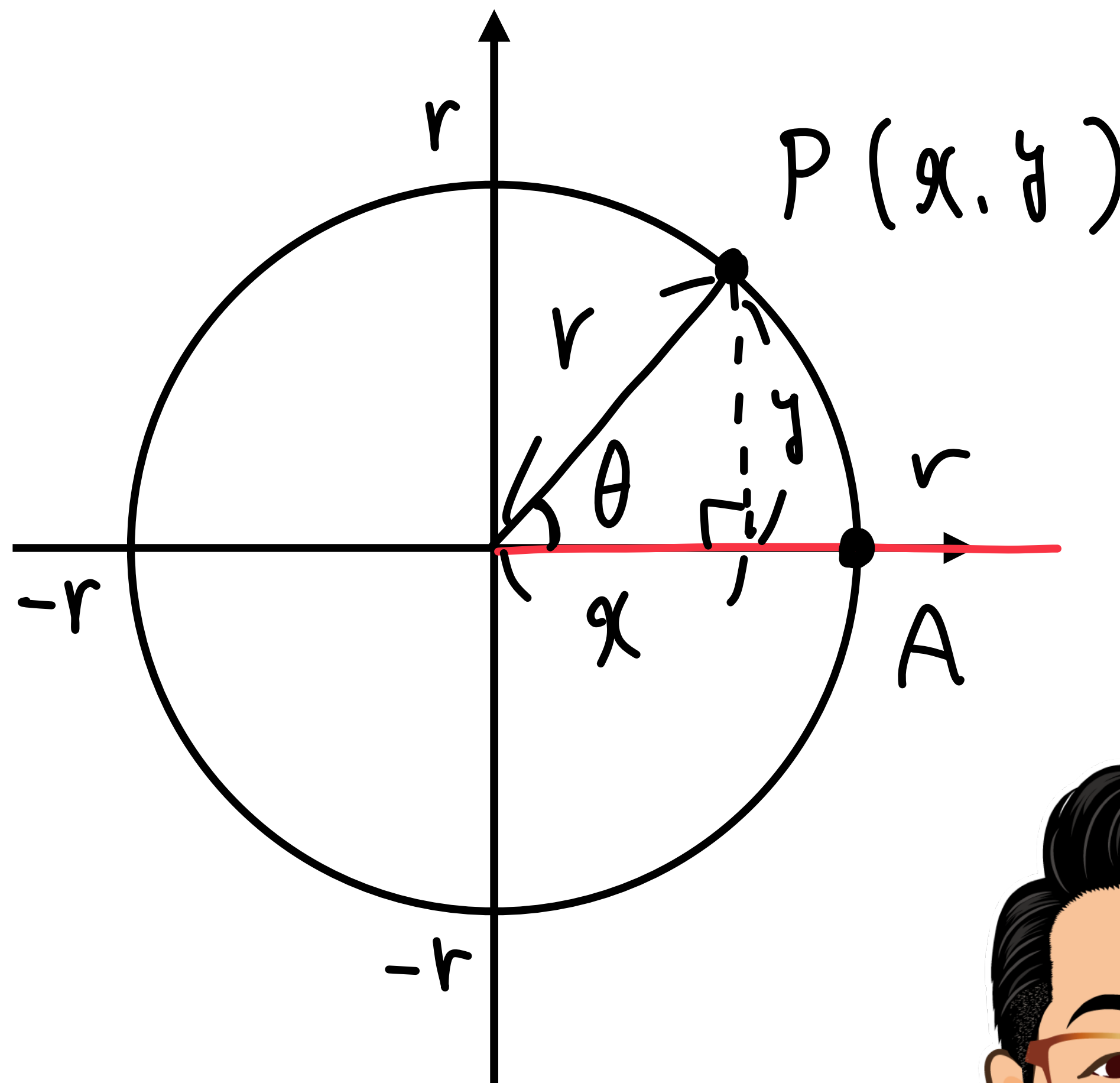


<これから>



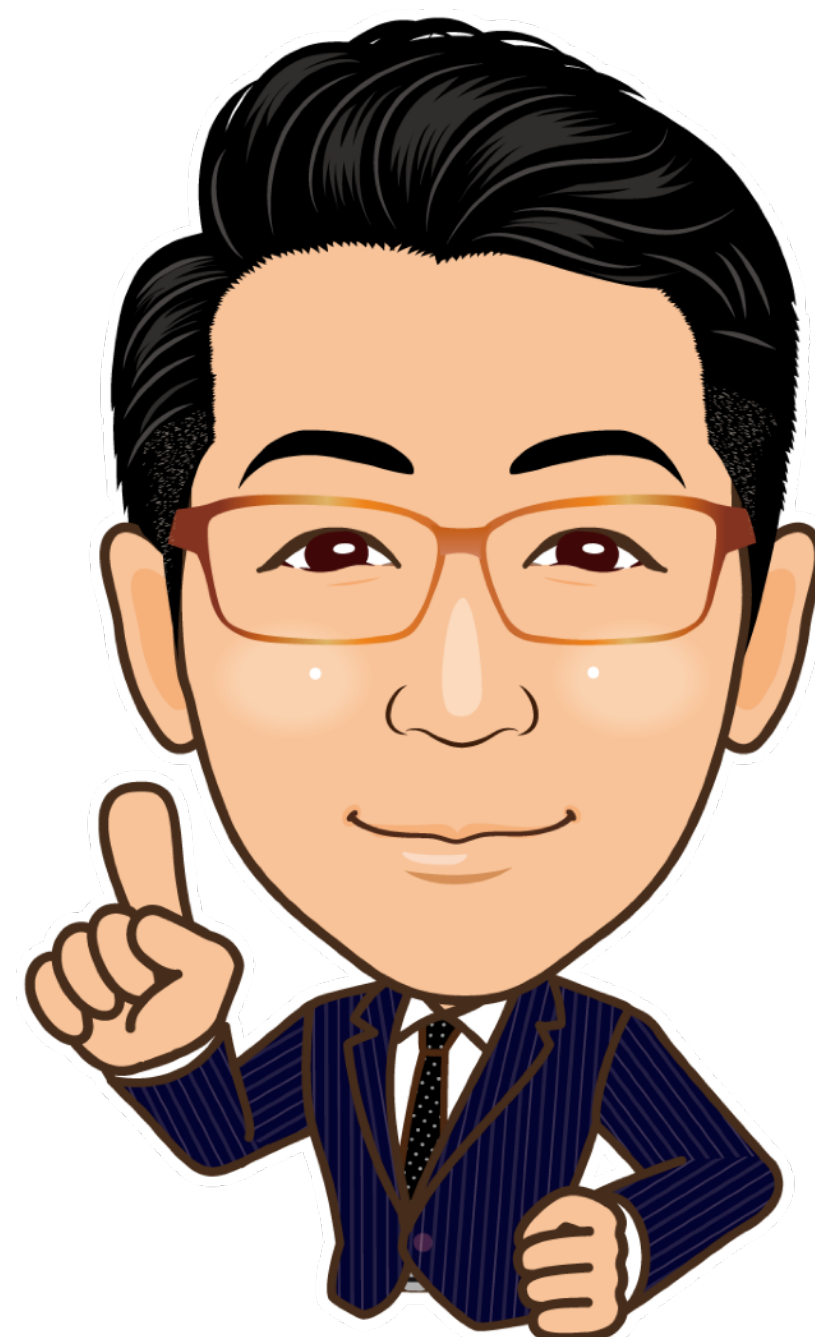
反時計回り

單位円



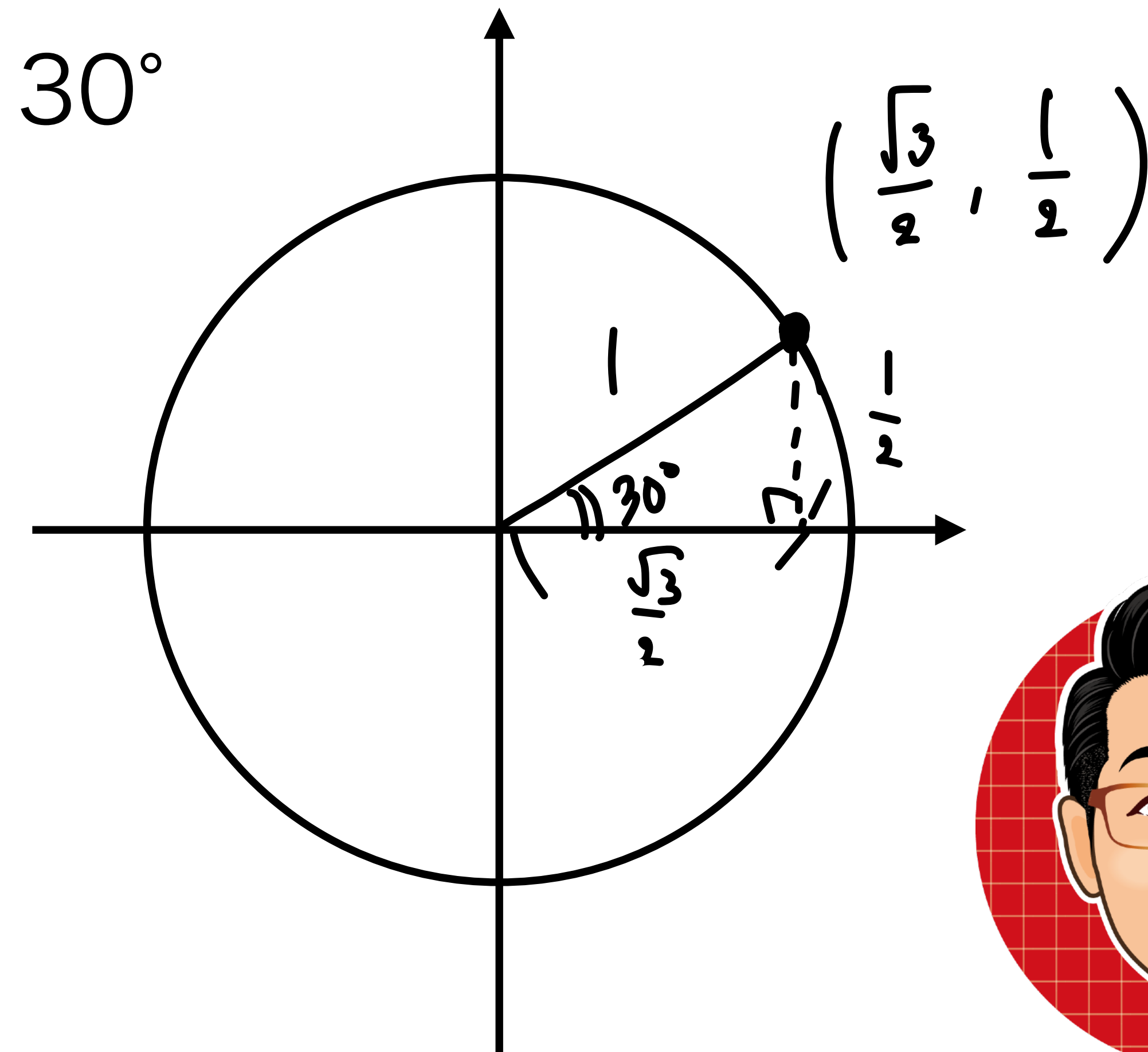
$$\sin \theta = \frac{y}{r}, \quad \tan \theta = \frac{y}{x}$$

$$\cos \theta = \frac{x}{r}$$

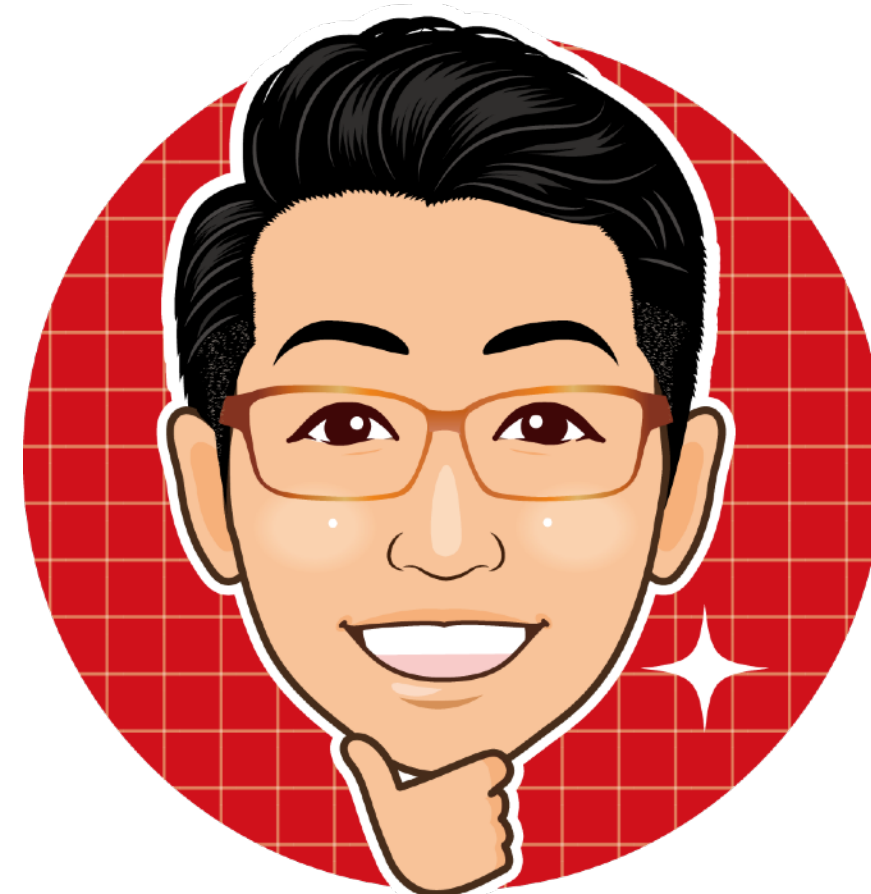
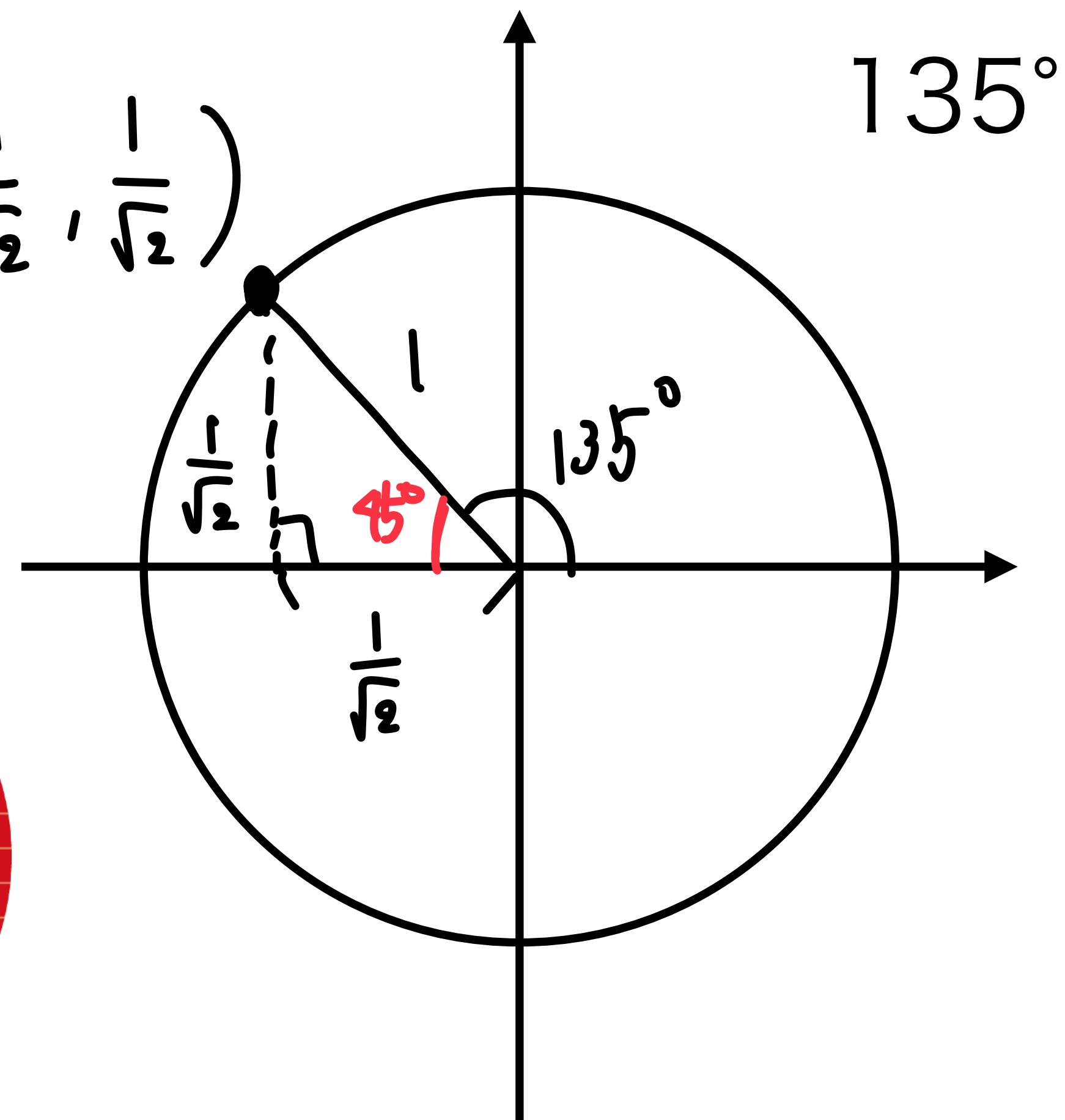


$$\sin \theta = \frac{y}{1} = y, \quad \tan \theta = \frac{y}{x}$$

$$\cos \theta = \frac{x}{1} = x$$



$$\left(-\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}\right)$$

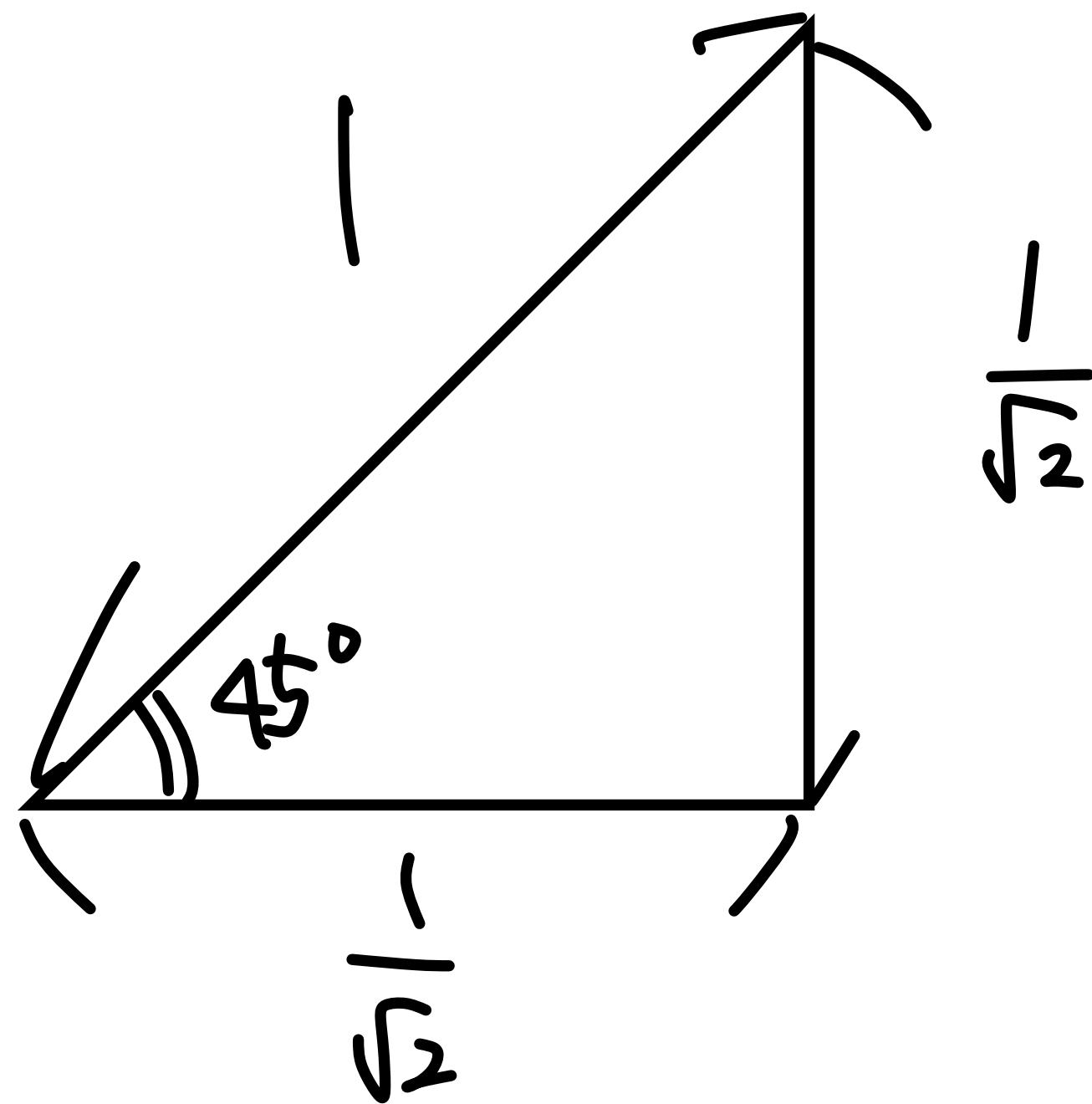
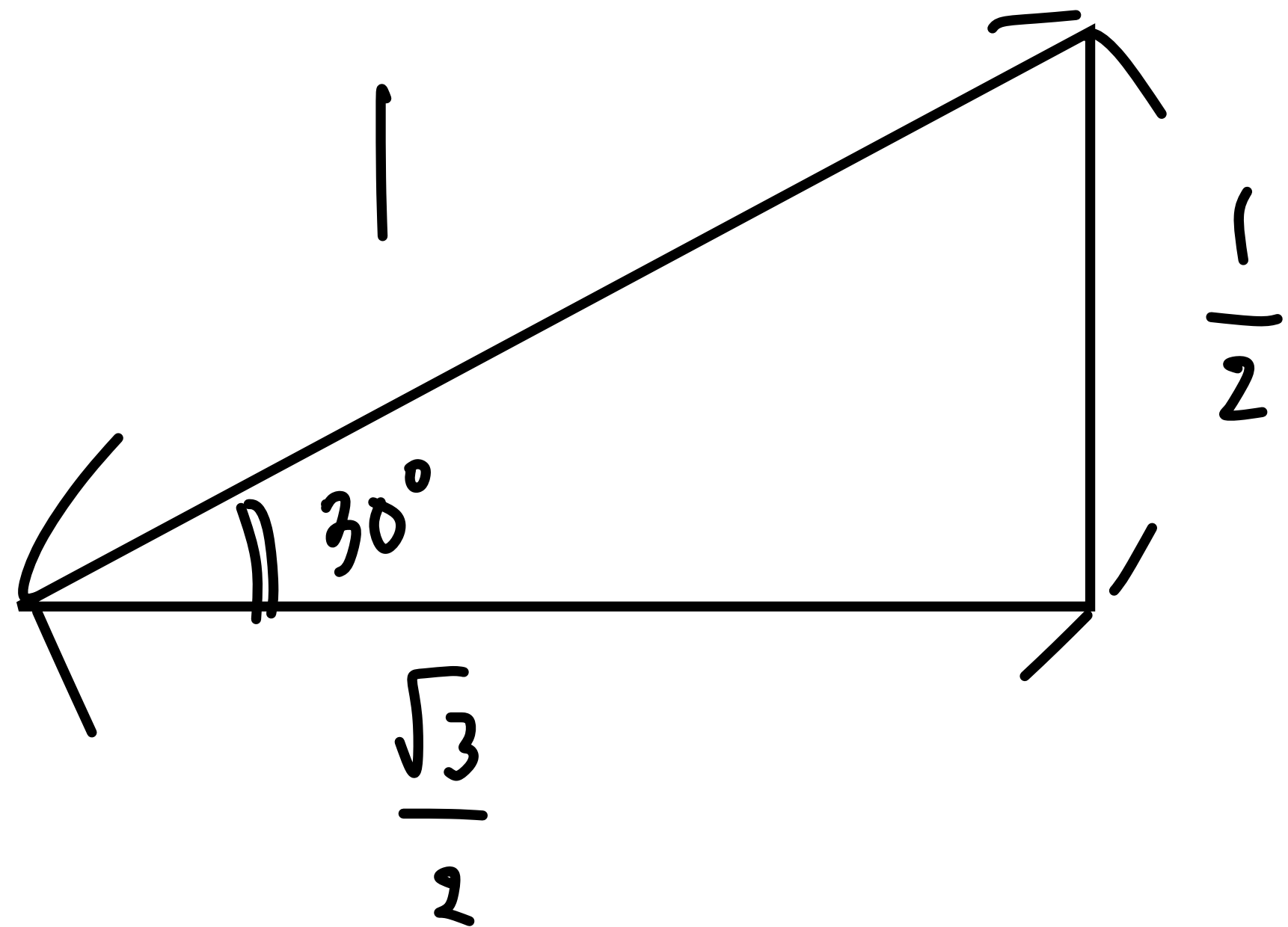


$$\sin 30^\circ = \frac{1}{2}, \quad \tan 30^\circ = \frac{1}{\sqrt{3}}$$

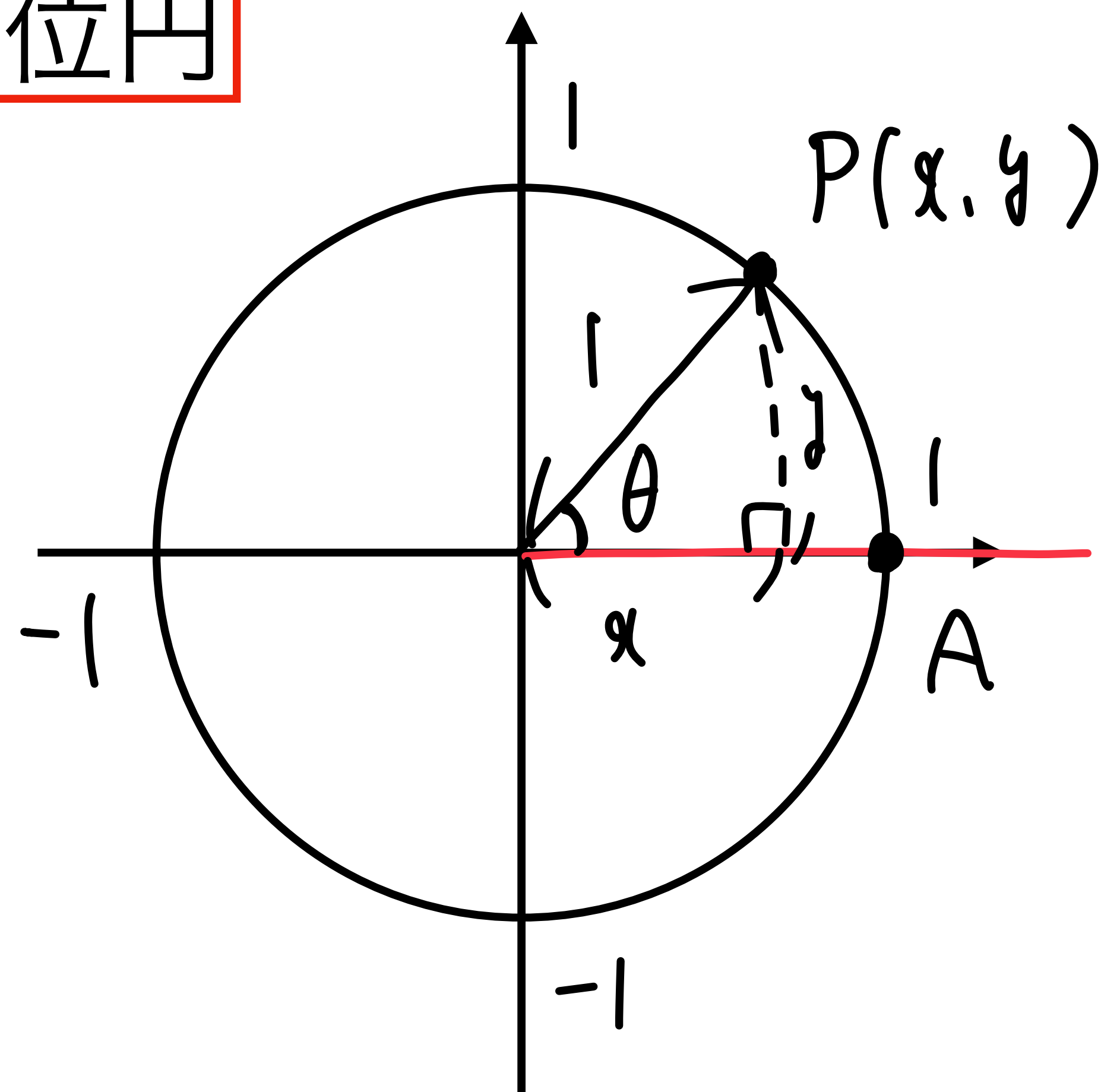
$$\cos 30^\circ = \frac{\sqrt{3}}{2}$$

$$\sin 135^\circ = \frac{1}{\sqrt{2}}, \quad \tan 135^\circ = -1$$

$$\cos 135^\circ = -\frac{1}{\sqrt{2}}$$



单位円



$$\sin \theta = \frac{y}{1} = y, \quad \tan \theta = \frac{y}{x}$$
$$\cos \theta = \frac{x}{1} = x$$

