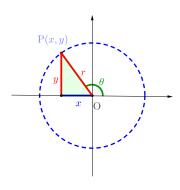
삼각함수의 기본공식 (Basic identities of trigonometric functions)

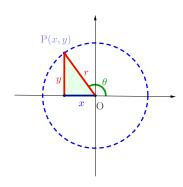




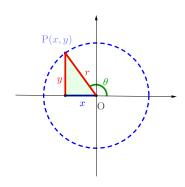




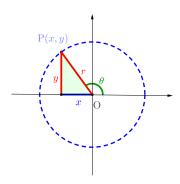




$$\frac{\sin \theta}{\cos \theta} = \frac{\frac{y}{r}}{\frac{x}{r}}$$



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





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



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

$$\sin^2 \theta + \cos^2 \theta$$



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

$$\sin^2 \theta + \cos^2 \theta$$

$$= \left(\frac{y}{r}\right)^2 + \left(\frac{x}{r}\right)^2$$

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

$$\sin^2 \theta + \cos^2 \theta$$

$$= \left(\frac{y}{r}\right)^2 + \left(\frac{x}{r}\right)^2 = \frac{y^2 + x^2}{r^2}$$

→ Start → End

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

$$\sin^2 \theta + \cos^2 \theta$$

$$= \left(\frac{y}{r}\right)^2 + \left(\frac{x}{r}\right)^2 = \frac{y^2 + x^2}{r^2}$$

$$= \frac{r^2}{r^2}$$

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

$$\sin^2 \theta + \cos^2 \theta$$

$$= \left(\frac{y}{r}\right)^2 + \left(\frac{x}{r}\right)^2 = \frac{y^2 + x^2}{r^2}$$

$$= \frac{r^2}{r^2} = 1$$

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

$$\sin^{2} \theta + \cos^{2} \theta$$

$$= \left(\frac{y}{r}\right)^{2} + \left(\frac{x}{r}\right)^{2} = \frac{y^{2} + x^{2}}{r^{2}}$$

$$= \frac{r^{2}}{r^{2}} = 1 \quad \frac{\sin \theta}{\cos \theta} + 1 = \frac{1}{\cos \theta}$$

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

$$\sin^2 \theta + \cos^2 \theta$$

$$= \left(\frac{y}{r}\right)^2 + \left(\frac{x}{r}\right)^2 = \frac{y^2 + x^2}{r^2}$$

$$= \frac{r^2}{r^2} = 1 \quad \frac{\sin \theta}{\cos \theta} + 1 = \frac{1}{\cos \theta}$$

$$\tan^2\theta + 1 = \sec^2\theta$$



Github:

https://min7014.github.io/math20220912002.html

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