

















$$\textcircled{6} \quad y = \sec x$$

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

$$y' = \frac{(1)'(\cos x) - (1)(\cos x)'}{(\cos x)^2}$$

$$y' = \frac{(0)(\cos x) - (1)(-\sin x)}{(\cos x)^2}$$

$$y' = \frac{\sin x}{(\cos x)^2}$$

$$y' = \frac{\sin x}{\cos x} \cdot \frac{1}{\cos x}$$

$$y' = \tan x \sec x$$