

$$\frac{-39}{13A} \quad y = \sqrt{\frac{\cos x}{1 + \sin x}} \quad \rightarrow \quad y' = \frac{1}{2} \sqrt{\frac{1 + \sin x}{\cos x}} \cdot \left(\frac{-\sin x (1 + \sin x) - \cos^2 x}{(1 + \sin x)^2} \right)$$

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

$$= \frac{1}{2} \frac{1}{\sqrt{\cos x} \sqrt{1 + \sin x}}$$