All
$$\frac{1}{1+x^4y^2}$$
 $\frac{1}{1+x^4y^2}$ $\frac{2\times y}{1+x^4y^2}$ $\frac{1}{1+x^4y^2}$ $\frac{2\times y}{1+x^4y^2}$ $\frac{2\times y}{1+x^4y^2}$

$$y = \frac{e^{2x}}{x^4} \cdot \frac{S\omega(x+1)}{(x+1)}$$
Affly $\ln 2$

$$\ln y = \left[\ln e^{2x} + \ln S\omega^2(x+1)\right] - \left[\ln x^4 + \ln(S^2x-1)^2\right]$$

$$\ln y = -2x + 3 \ln S - (x+1) - 4 \ln x - \frac{1}{2} \ln(S^2x-1)$$

$$\frac{d}{dx} \cdot \frac{1}{4} \cdot y' = -2 + 3 \cdot \frac{1}{5 \cdot 2(x+1)} \cdot \frac{(x+1) \cdot (1-4 \cdot 1) \cdot 1}{x^2 \cdot 2(x+1)}$$

$$\frac{dy}{dx} = \begin{cases} -2 + 3 & \text{cot}(x+1) - \frac{4}{x} - \frac{5}{2} \cdot \frac{1}{(x-1)} \\ \frac{e^{2x} \cdot \text{cot}(x+1)}{x^{4} \cdot (5x-1)^{1/2}} \end{cases}$$

$$f(x) = (x+1)^{2} \left(\frac{\sin x + \cos x}{\sin x} \right) \left(\frac{\sin x}{\sin x} \right) = \frac{1}{x}$$

$$f(x) = \ln (x+1)^{2} = \frac{1}{x} \left(\frac{\sin x + \cos x}{\sin x} \right) \ln (x+1)$$

$$f(x) = \frac{1}{x} \left(\frac{\sin x - \sin x}{\cos x} \right) \ln (x+1) + \frac{\cos x + \cos x}{x+1} = \frac{1}{x} \left(\frac{\cos x + \cos x}{\cos x} \right)$$

$$f'(x) = \left(\frac{\cos x - \sin x}{\cos x} \right) \ln (x+1) + \frac{\cos x + \cos x}{x+1} = \frac{1}{x} \left(\frac{\cos x + \cos x}{\cos x} \right)$$

$$f'(x) = \left(\frac{\cos x - \sin x}{\cos x} \right) \ln (x+1) + \frac{\cos x + \cos x}{x+1} = \frac{1}{x} \left(\frac{\cos x + \cos x}{\cos x} \right)$$

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