

Function derivative example

Calculate the derivative of the following function:

$$f(x) = e^{\frac{1+x}{1-x}}$$

$$f'(x) = e^{\frac{1+x}{1-x}} \cdot \frac{1}{1-x} \cdot \frac{1+x}{(1-x)^2} \cdot (-1)$$

$$f'(x) = -e^{\frac{1+x}{1-x}} \cdot \frac{1+x}{(1-x)^3}$$