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(134)

$$y = \log_x(x+1)$$

$$y = \frac{\log(x+1)}{\log x} \rightarrow y' = \frac{\frac{1}{x+1} - \frac{\log(x+1)}{x}}{\log^2 x} = \frac{x \log x - (x+1) \log(x+1)}{\log^2 x + (x+1)x}$$