

$$\begin{aligned}(8) \quad & \left(\frac{e^x + 1}{e^x - 1} \right)' \\&= \frac{(e^x + 1)'(e^x - 1) - (e^x + 1)(e^x - 1)'}{(e^x - 1)^2} \\&= \frac{-2e^x}{(e^x - 1)^2}\end{aligned}$$