Déterminer $\lim\limits_{x \to 1} \dfrac{e^x - e}{x - 1}$.

$$\lim\limits_{x \to 1} \frac{e^x - e}{x - 1} = \lim\limits_{x \to 1} \frac{e^x - e^1}{x - 1} = \lim\limits_{x \to 1} \frac{f(x) - f(1)}{x - 1} = f'(1) = \exp'(1) = e^1 = e \ .$$