$$\begin{aligned} &\lim_{\text{Lisdag 27 december 2022}} & 15.58 \\ &\lim_{\text{Lin}} (1+x) - x + \frac{x^2}{2} \Big| \leq \frac{8 \cdot 1 \times 1}{3} \quad \text{om } |x| \leq \frac{1}{2} \\ &\mathcal{E}(x) = \frac{1}{2} \left(1+x \right) \quad \mathcal{E}'(x) = \frac{1}{2} \left(1+x \right)^{\frac{1}{2}} \quad \mathcal{E}'(x) = -\frac{1}{2} \left(1+x \right)^{\frac{1}{2}} \\ &\lim_{\text{Lin}} \left(1+x \right) - x + \frac{x^2}{2} \Big| = \left[\left. \mathcal{E}(x) - \mathcal{P}_2(x) \right| = \frac{1}{2} \left(1+x \right)^{\frac{1}{2}} \right] \times \frac{3}{2} = \frac{1}{3} \frac{1}{(1+x)^3} \cdot x^3 = \frac{1}{3} \frac{1}{(1+x)^3} \cdot x^3 = \frac{8}{3} \times \frac{3}{2} \times \frac{3}{2} \\ &\lim_{\text{Lin}} \left(1+x \right) - x + \frac{x^2}{2} \Big| = \left[\left. \mathcal{E}(x) - \mathcal{P}_2(x) \right| = \frac{1}{2} \mathcal{E}(x) \right] \times \frac{1}{2} = \frac{1}{3} \frac{1}{(1+x)^3} \cdot x^3 = \frac{1}{3} \frac{1}{(1+x)^3} \cdot x^3 = \frac{8}{3} \times \frac{3}{2} \times \frac{3}{2} \\ &\lim_{\text{Lin}} \left(1+x \right) - \frac{1}{2} \left(1+x \right) = \frac{1}{2} \frac{1}{3} \frac{1}{(1+x)^3} \cdot x^3 = \frac{1}{3} \frac{1}{(1+x)^3} \cdot x^3 = \frac{8}{3} \times \frac{3}{2} \times \frac{3}{2} \times \frac{3}{2} \times \frac{3}{2} = \frac{1}{3} \frac{1}{(1+x)^3} \cdot x^3 = \frac{1}{3} \frac{1}{(1+x)^3} \cdot x^3 = \frac{1}{3} \frac{1}{(1+x)^3} \cdot x^3 = \frac{8}{3} \times \frac{3}{2} \times \frac{$$