

Ex 2.8.7

$$5 \cdot 0 \cdot x^{-1} = 0$$

$$e) \quad (5x^0)' = \begin{array}{l} / \\ (5)' = 0 \\ \backslash \\ \underline{1} \end{array}$$

$$+ \quad (\sqrt[5]{x})' = (x^{\frac{1}{5}})' = \frac{1}{5} \cdot x^{\frac{1}{5}-1} = \frac{1}{5} x^{-\frac{4}{5}} = \frac{1}{5} \cdot \frac{1}{x^{\frac{4}{5}}} = \underline{\underline{\frac{1}{5\sqrt[5]{x^4}}}}$$

$$\left(\frac{1}{x^3}\right)' = (x^{-3})' = -3x^{-3-1} = -3x^{-4} = -3 \cdot \frac{1}{x^4} = \underline{\underline{-\frac{3}{x^4}}}$$