Continuity, Diff-, Lipschity 5 i(n) 5 i(n) x f'(n) = 2 i(n)

fix) Example 2 diff. f(21) EC x not cont. diff. Example 3 a contraction map i) slope m < 1

$$\frac{d}{dx} = mx^{n-1}$$

$$\int_{\mathcal{X}} dx = \int_{n+1}^{n+1} x^{n+1} = \int_{n+1}^{n+1} dx = \int_{n+$$

$$\frac{\partial x}{\partial t} = \frac{1}{x} = -\frac{1}{x} + \frac{1}{x^{2}}$$

$$\frac{\partial x}{\partial t} = \frac{1}{x^{2} - x} + \frac{1}{t}$$

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$$\begin{aligned}
|-x| &= \varkappa \left(\frac{1-\varkappa_0}{\varkappa_0} \right) e^{-t-t_0} \\
&= \varkappa \left(1 + \frac{1-\varkappa_0}{\varkappa_0} e^{-t-t_0} \right) \\
&= \frac{1}{1+\frac{1-\varkappa_0}{\varkappa_0} e^{-t-t_0}} \\
&= \frac{1}{(1-\varkappa_0) + \varkappa_0 e^{-1t-t_0}}
\end{aligned}$$