

$$\bigcap_{A \text{ IM}} A$$

$$\mathbb{R}\phi$$

$$f(x):=\begin{cases}x^2&\text{falls }0<x<\frac{1}{2}\\1&\text{falls }\frac{1}{2}<x<1\\\frac{1}{7}&\text{falls }x=1\\\frac{1}{2}&\text{falls }1=\frac{1}{2}\end{cases}$$