

Funktion

$$f(x) = y \Rightarrow (x|y)$$

'jedem x gehört exakt (genau) ein y -Wert'

$$\left. \begin{array}{l} x_1 : f(x_1) = y_1 \\ x_2 : f(x_2) = y_2 \end{array} \right\} x_1 = x_2 \Leftrightarrow y_1 = y_2 \left. \vphantom{\begin{array}{l} x_1 : f(x_1) = y_1 \\ x_2 : f(x_2) = y_2 \end{array}} \right\} \begin{array}{l} \text{rechtseindeutig} \\ y\text{-Achse} \end{array}$$

$$y_1 = y_2 \Leftrightarrow x_1 = x_2 \quad \begin{array}{l} \text{linkeindeutig} \\ x\text{-Achse} \end{array}$$

$$\left. \begin{array}{l} x \hat{=} \mathbb{D} \\ y \hat{=} \mathbb{W} \end{array} \right\} M_1 \times M_2 \quad \begin{array}{l} M_1 = \mathbb{D} \\ M_2 = \mathbb{W} \end{array} \quad \begin{array}{l} \text{linkstotal} \\ \text{rechtstotal} \end{array} \begin{array}{l} \nearrow \text{total} \\ \searrow \text{partiell} \end{array}$$

$$\textcircled{5} = \{(x, y) \in \mathbb{R} \times \mathbb{R} \mid y = \frac{2}{x} - 4\}$$

links \curvearrowright $D = \mathbb{R} \setminus \{0\}$

rechts \curvearrowright $K = \mathbb{R} \setminus \{-4\}$

