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Aufgaben	Lösungen
$\oplus f(x) = \frac{1}{x^4} + 2^x$ 	$D = \mathbb{R}^*$  \oplus $W = \mathbb{R}_+^*$
$\oplus f(x) = -x^2$ 	$D = \mathbb{R}$  \oplus $W = \mathbb{R}_+$
$\oplus f(x) = \frac{1}{x^3}$ 	$D = \mathbb{R}^*$  \oplus $W = \mathbb{R}^*$
$\oplus f(x) = \sqrt{x-1}$ 	$D =]-\infty; 1]$  \oplus $W = \mathbb{R}_+$
$\oplus f(x) = x^4 - 1$ 	$D = \mathbb{R}$  \oplus $W =]-\infty; 2]$
$\oplus f(x) = \sqrt{4-x^2}$ 	$D = \mathbb{R}^*$  \oplus $W = \mathbb{R}_+^*$
$\oplus f(x) = \frac{1}{x}$ 	$D = [-1; 1]$  \oplus $W = [0; 1]$
$\oplus f(x) = -x^4 - x^2$ 	$D = \mathbb{R} \setminus \{3\}$  \oplus $W = \mathbb{R} \setminus \{1\}$
$\oplus f(x) = \frac{1}{(x+2)} - 1$ 	$D = \mathbb{R}$  \oplus $W = \mathbb{R}$
$\oplus f(x) = -\sqrt{8-x^3}$ 	$D = \mathbb{R}$  \oplus $W = \mathbb{R}_+^*$
$\oplus f(x) = x^3 + 4$ 	$D = [-2; \infty[$  \oplus $W = \mathbb{R}_+$
$\oplus f(x) = -5^x$ 	$D = \mathbb{R}$  \oplus $W = [2; \infty[$

Funktionen: Definitions- und Wertebereich

Aufgaben	Lösungen
$\oplus f(x) = -\frac{1}{x^2} - 3^x$ 	$D = \mathbb{R}^*$  \oplus $W = \mathbb{R}_+^*$
$\oplus f(x) = x^2$ 	$D = \mathbb{R}$  \oplus $W = \mathbb{R}_-$
$\oplus f(x) = x^{-1}$ 	$D = \mathbb{R}^*$  \oplus $W = \mathbb{R}^*$
$\oplus f(x) = \sqrt{1-x}$ 	$D = [1; \infty[$  \oplus $W = \mathbb{R}_+$
$\oplus f(x) = -x^2 + 2$ 	$D = \mathbb{R}$  \oplus $W = [-1; \infty[$
$\oplus f(x) = \frac{1}{x^2}$ 	$D = [-2; 2]$  \oplus $W = [0; 2]$
$\oplus f(x) = \sqrt{1-x^2}$ 	$D = \mathbb{R}^*$  \oplus $W = \mathbb{R}^*$
$\oplus f(x) = \frac{1}{(x-3)} + 1$ 	$D = \mathbb{R}$  \oplus $W = \mathbb{R}_-$
$\oplus f(x) = x^5 - 2$ 	$D = \mathbb{R} \setminus \{-2\}$  \oplus $W = \mathbb{R} \setminus \{-1\}$
$\oplus f(x) = 2^x$ 	$D =]-\infty; 2]$  \oplus $W = \mathbb{R}_-$
$\oplus f(x) = \sqrt{8+x^3}$ 	$D = \mathbb{R}$  \oplus $W = \mathbb{R}$
$\oplus f(x) = x^4 + x^2 + 2$ 	$D = \mathbb{R}$  \oplus $W = \mathbb{R}_+^*$