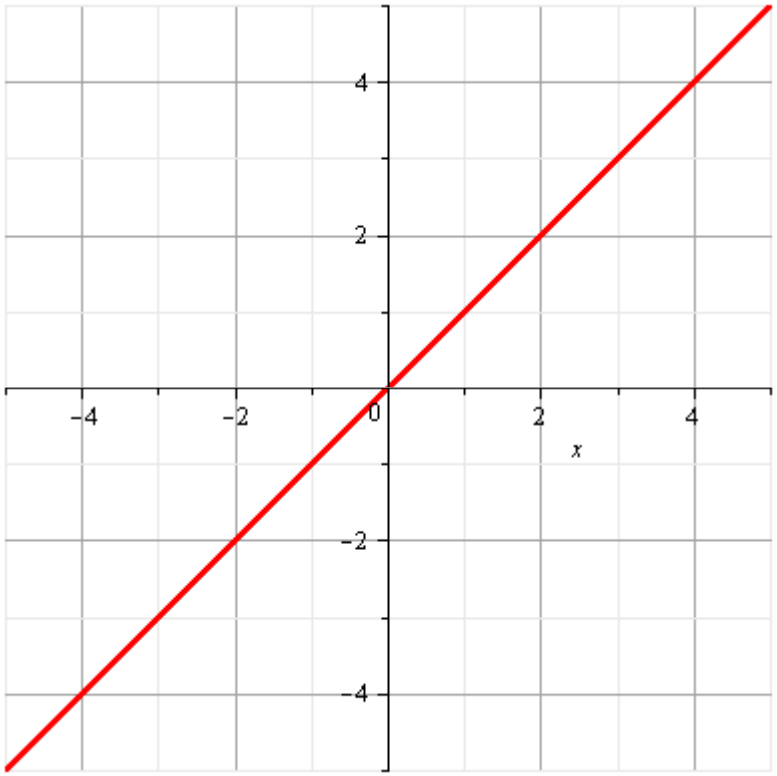
$$f(x) = x$$

$$D_f = \mathbb{R}$$

$$W_f = ?$$

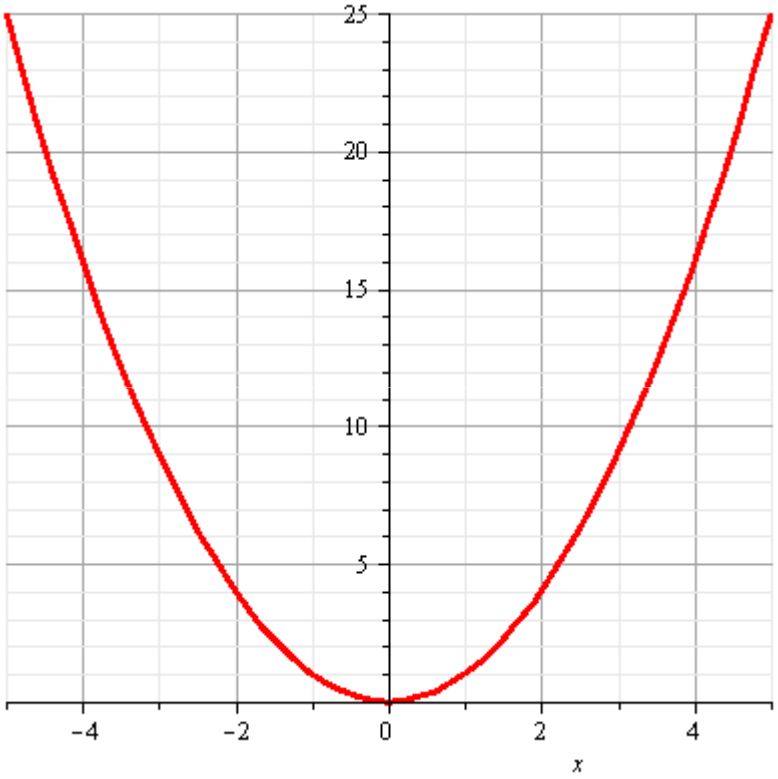


$$W_f = \mathbb{R}$$

$$f(x) = x^2$$

$$D_f = \mathbb{R}$$

$$W_f = ?$$

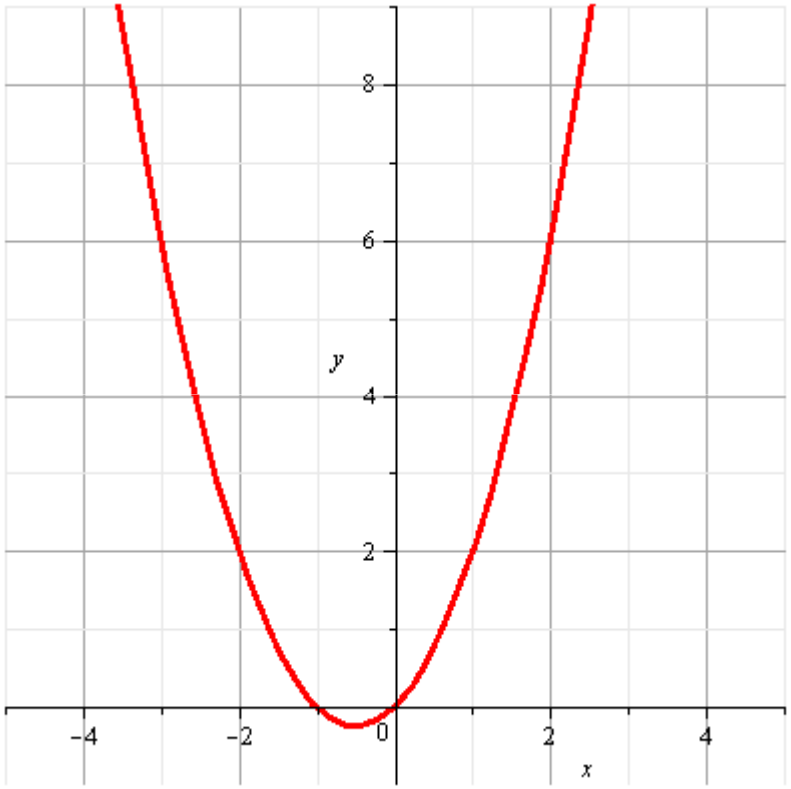


$$W_f = \mathbb{R}_0^+$$

$$f(x) = x^2+x$$

$$D_f = \mathbb{R}$$

$$W_f = ?$$



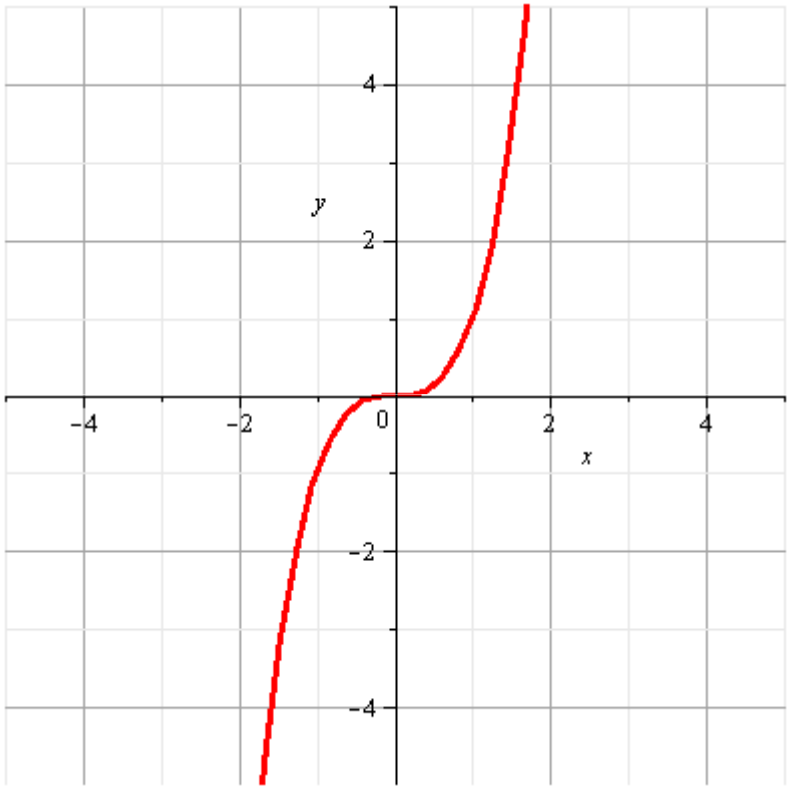
Komplizierter!

$$f(x) = x^3$$

$$D_f = \mathbb{R}$$

$$W_f = ?$$

Wendeparabel



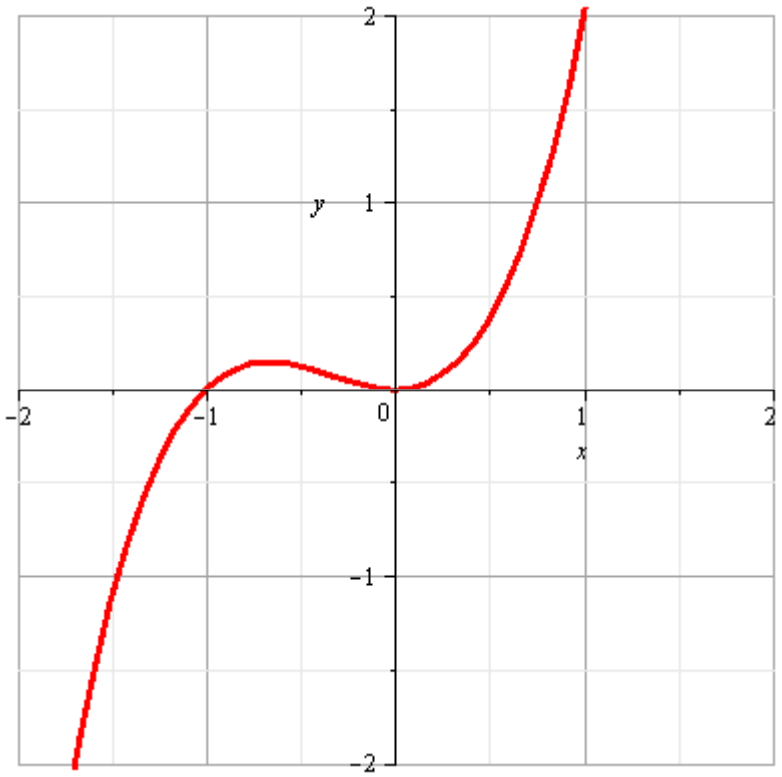
$$W_f = \mathbb{R}$$

$$f(x) = x^3+x^2$$

$$D_f = \mathbb{R}$$

$$W_f = ?$$

Wendeparabel



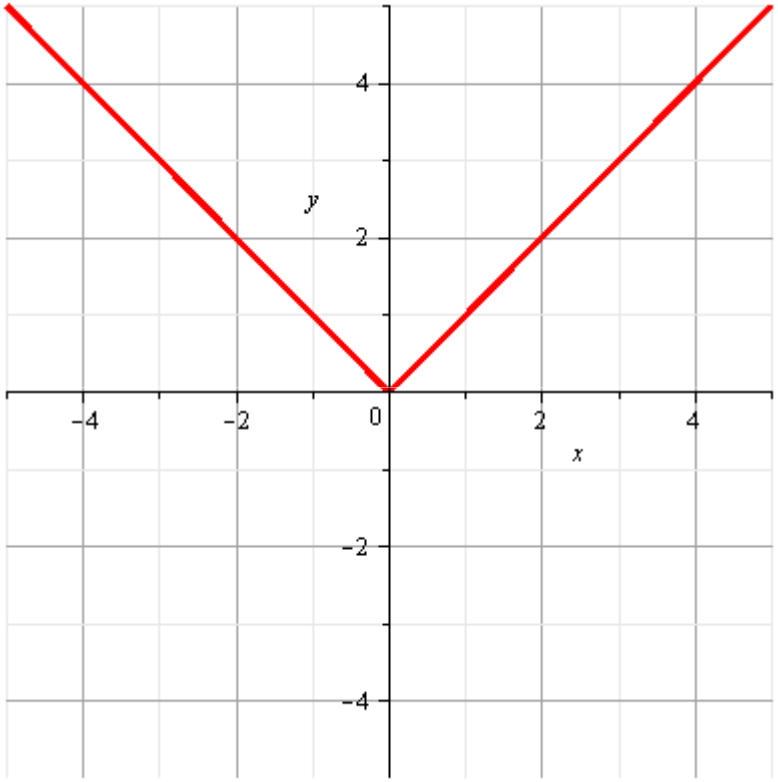
$$W_f = \mathbb{R}$$

$$f(x) = |x|$$

$$D_f = \mathbb{R}$$

$$W_f = ?$$

Betragsfunktion

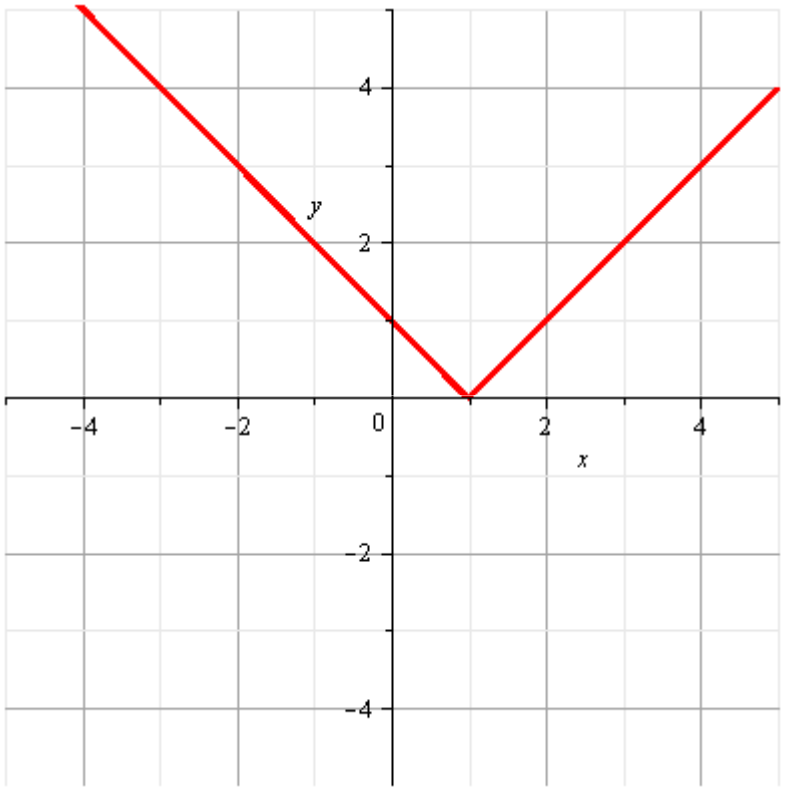


$$W_f = \mathbb{R}_0^+$$

$$f(x) = |x-1|$$

$$D_f = \mathbb{R}$$

$$W_f = ?$$



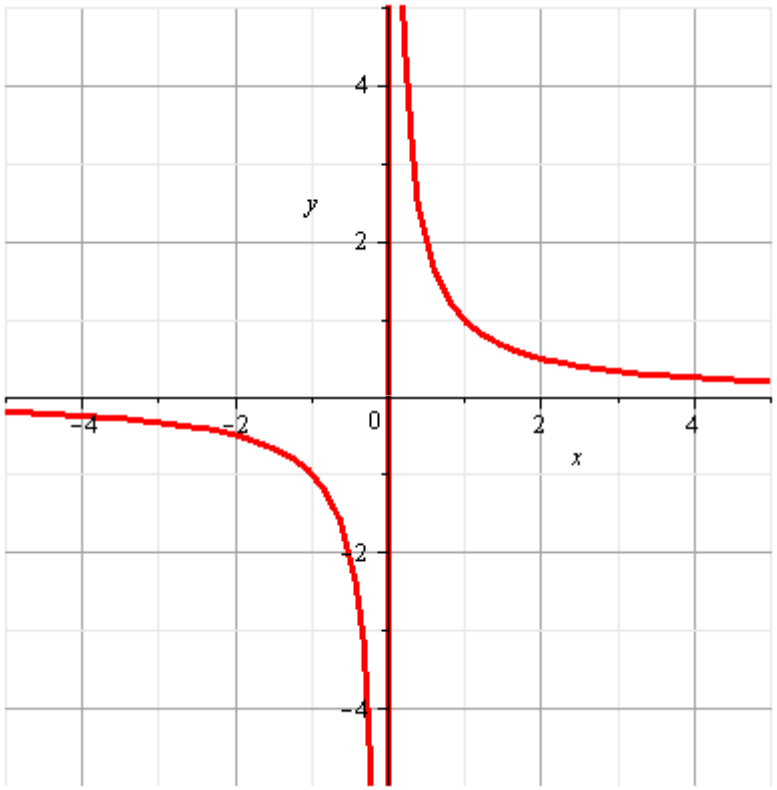
$$W_f = \mathbb{R}_0^+$$

$$f(x) = 1/x$$

$$D_f = ?$$

$$W_f = ?$$

Hyperbel



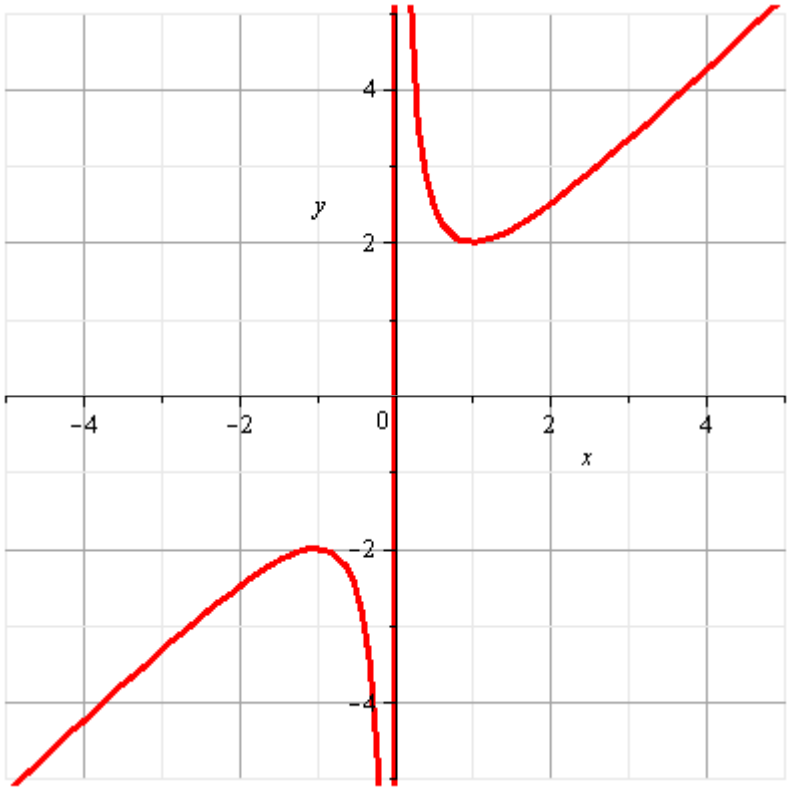
$D_f = W_f = \mathbb{R} \setminus \{0\}$

$$f(x) = x+1/x$$

$$D_f = ?$$

$$W_f = ?$$

Hyperbel



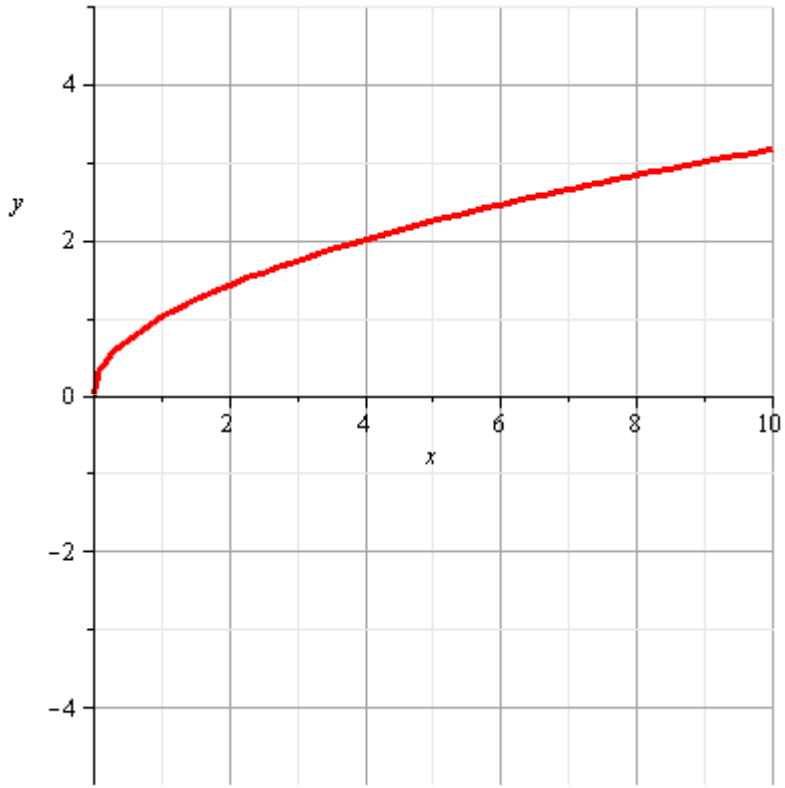
$D_f = \mathbb{R} \setminus \{0\}$, $W_f = ?!$

$$f(x) = \text{sqrt}(x)$$

$$D_f = ?$$

$$W_f = ?$$

Wurzelfunktion



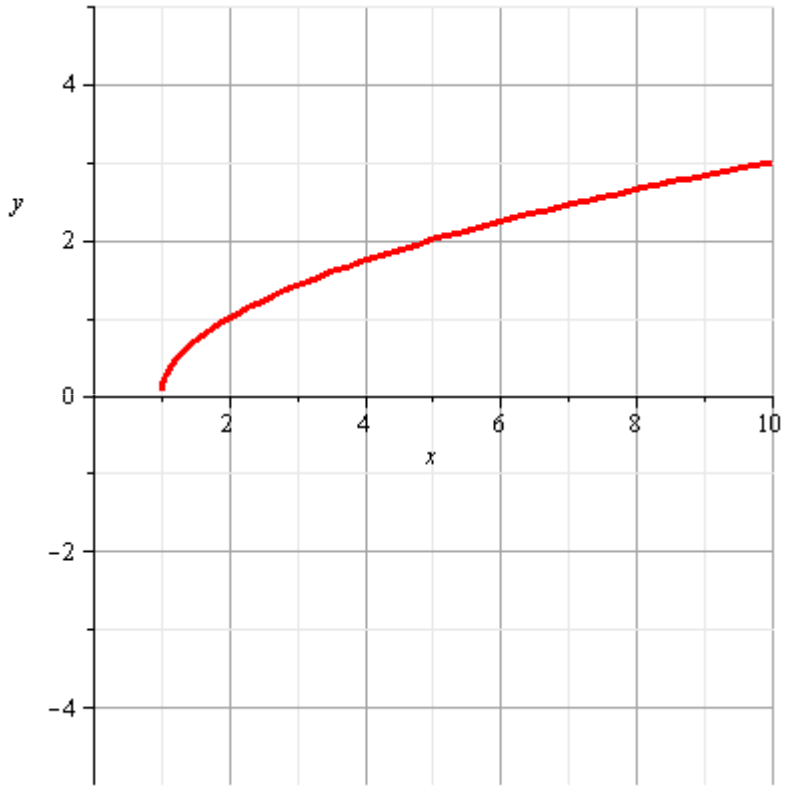
$$D_f = \mathbb{R}_0^+, \; W_f = \mathbb{R}_0^+$$

$$f(x) = \text{sqrt}(x-1)$$

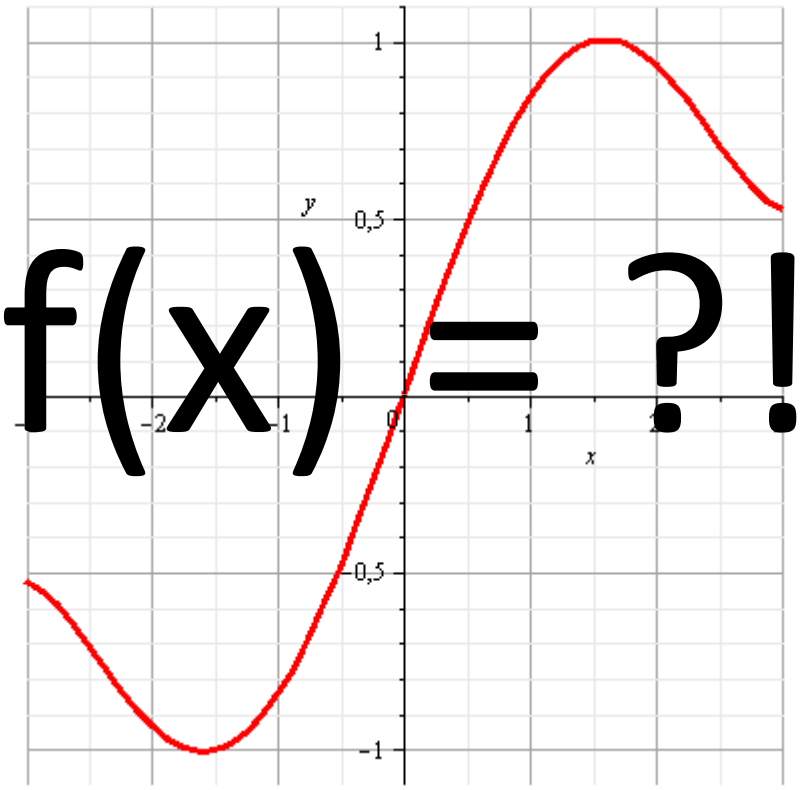
$$D_f = ?$$

$$W_f = ?$$

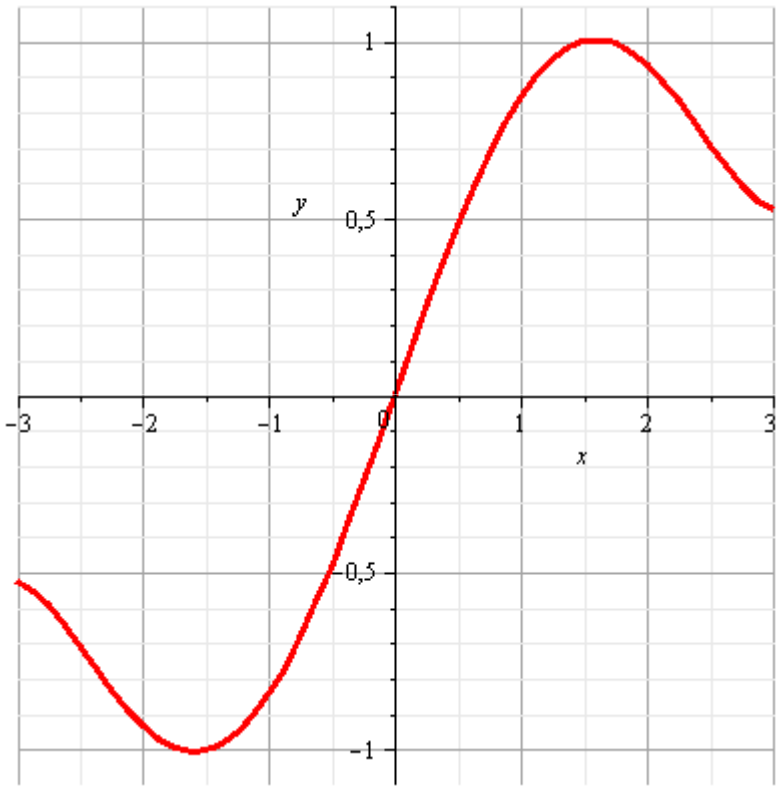
Wurzelfunktion



$D_f = ?!, W_f = \mathbb{R}_0^+$


f(x)= ?!
y
x
1
0,5
-0,5
-1
-2
-1
0
1

Näherung des Sinus!



$$f(x) = x - x^3/6 + x^5/120$$

Weitere Fragen:

- Wieso reicht eigentlich ein Ausschnitt des Schaubildes („man hat ja alles gesehen“) ?

- Schreibe dir noch einmal in Ruhe alle Funktionen, die du bisher kennengelernt hast, in einer Liste auf.