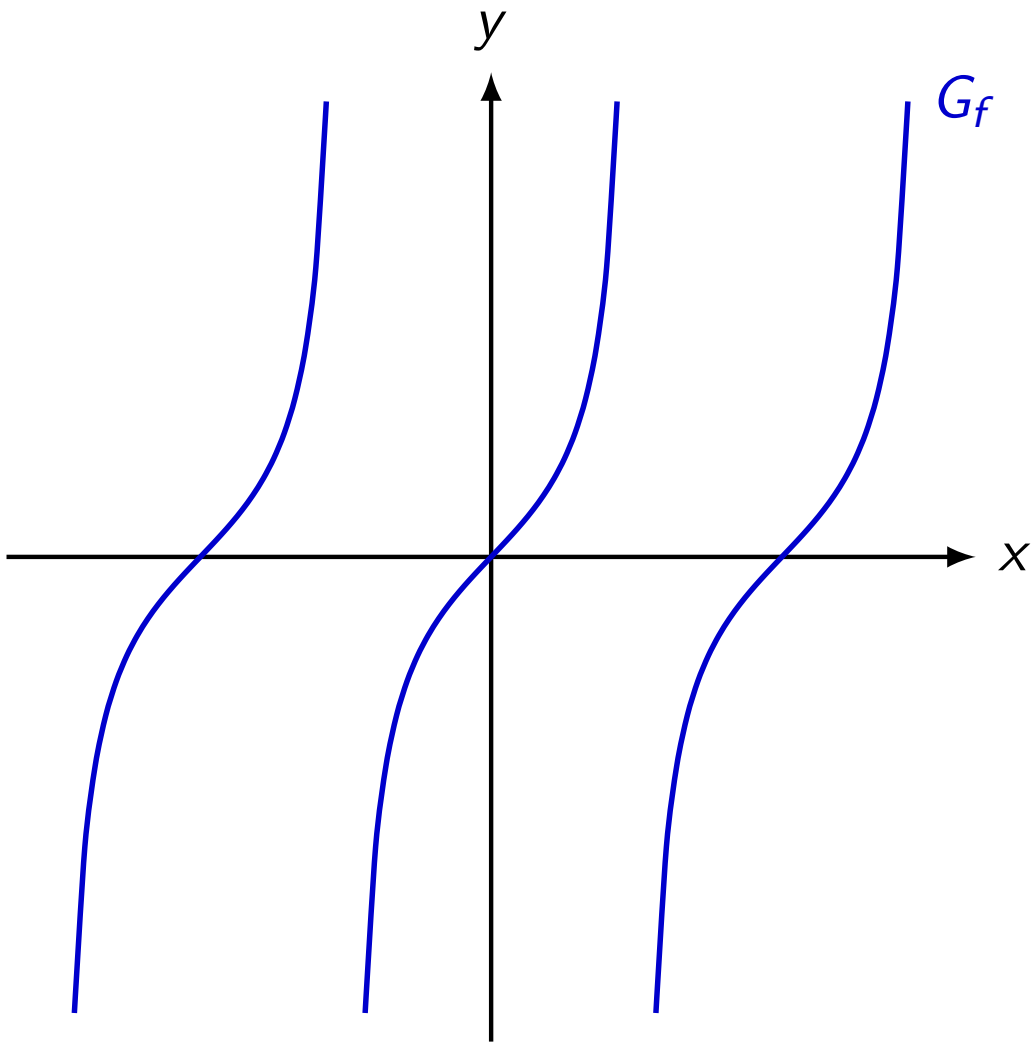
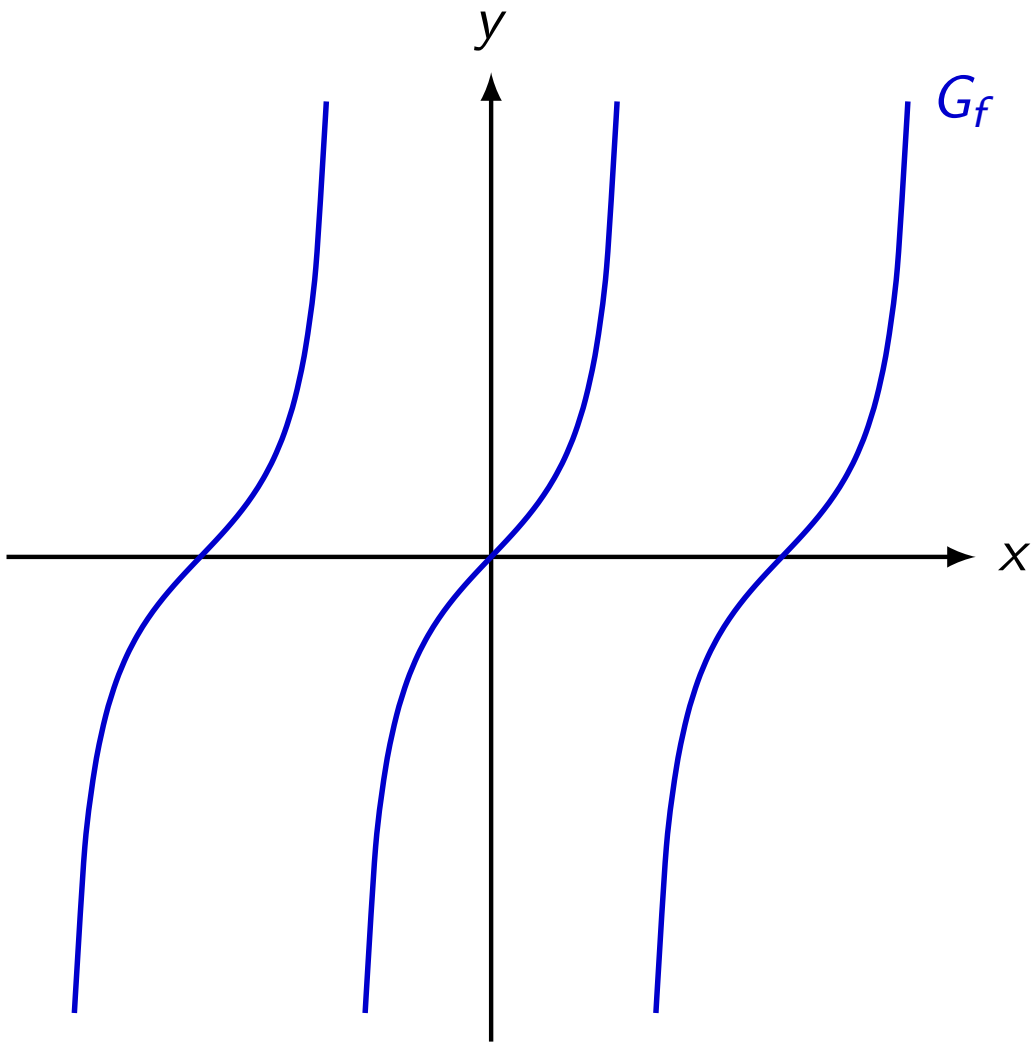
Funktionen (am Graphen erkennen)

Übungen

Aufgabe 1

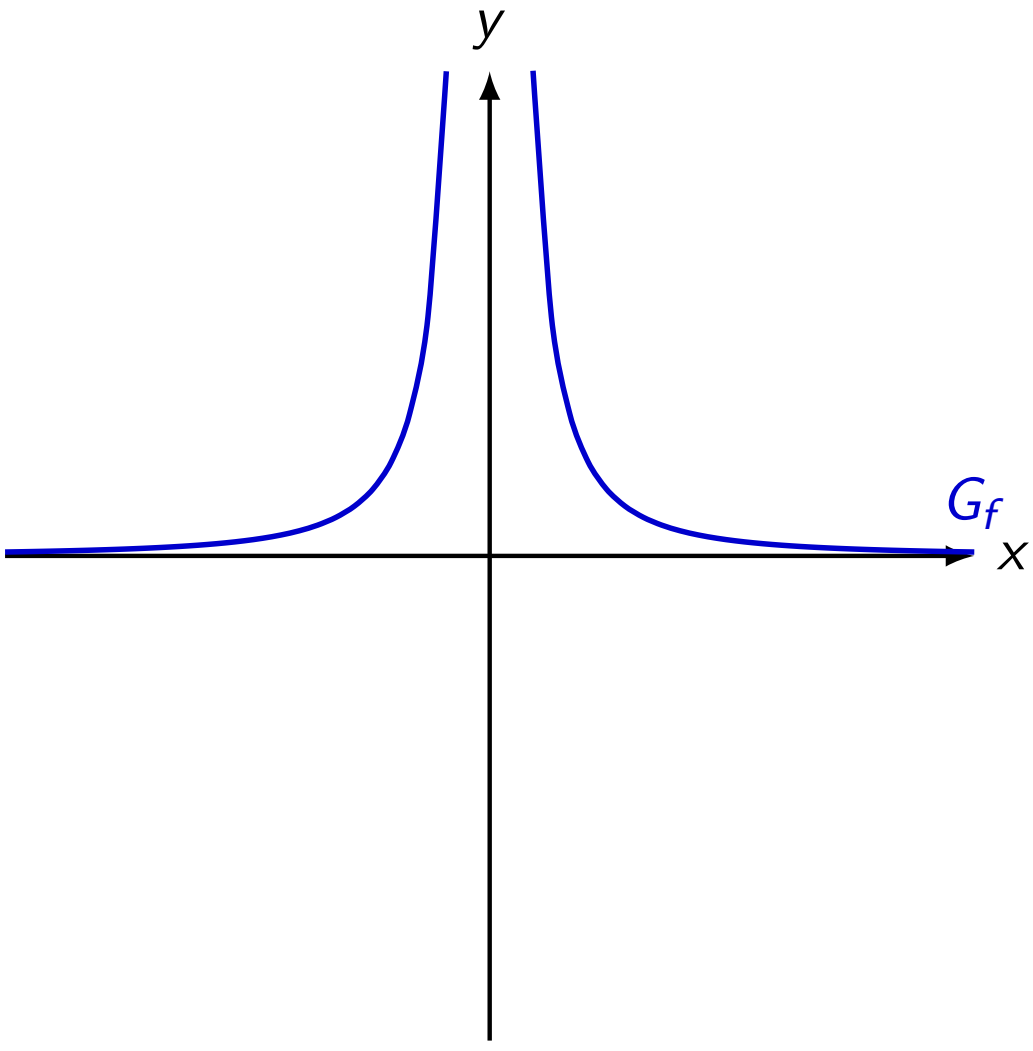


Aufgabe 1

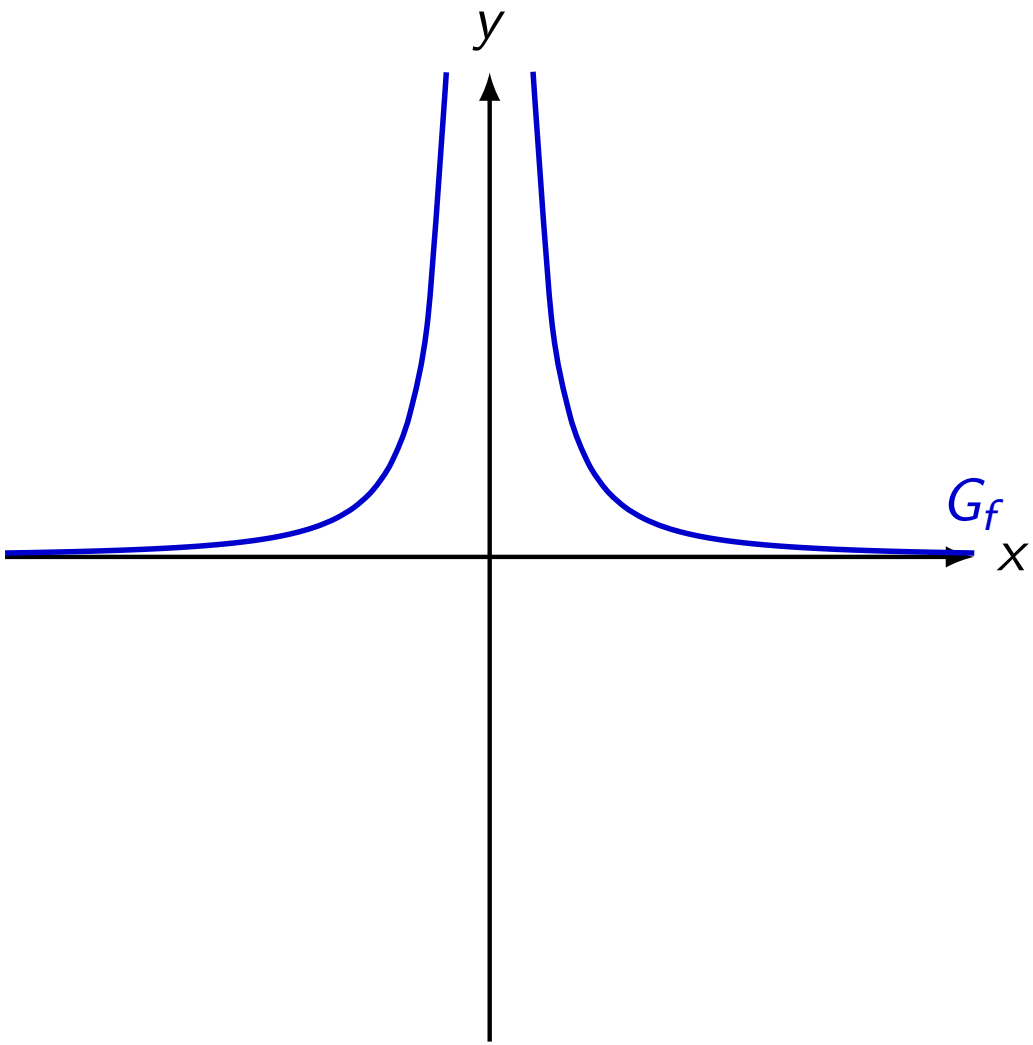


Tangensfunktion: $f(x) = \tan(x)$

Aufgabe 2

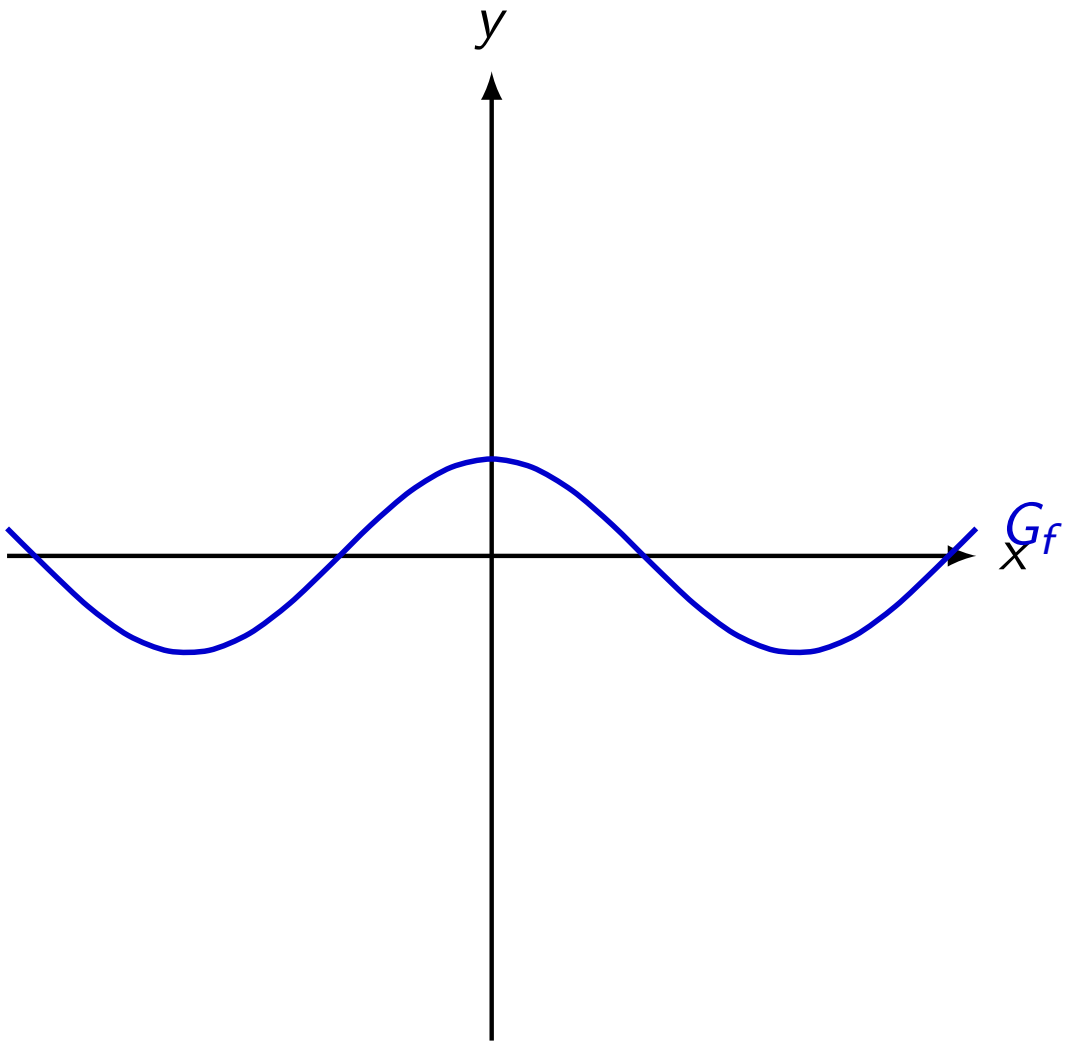


Aufgabe 2

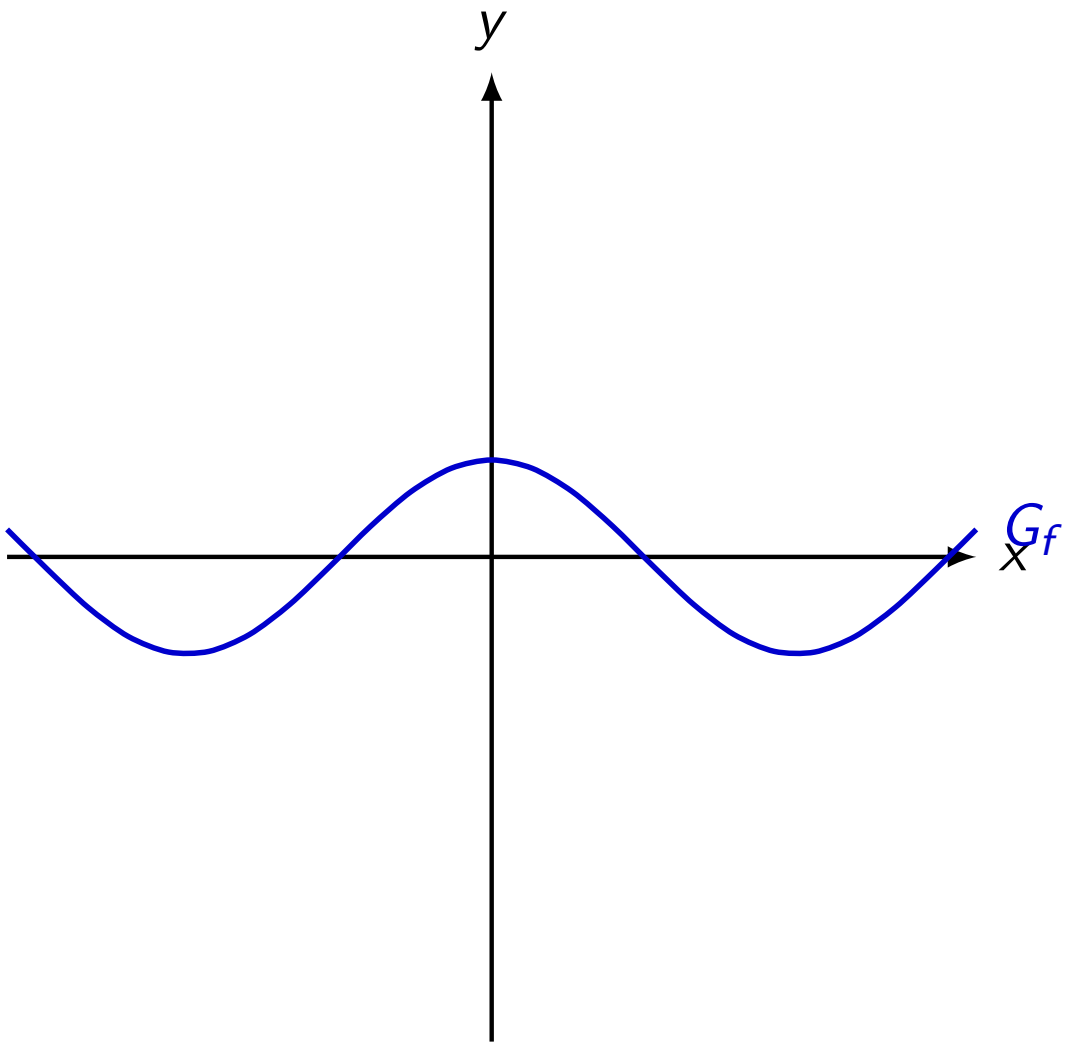


Potenzfunktion: $f(x) = x^{-2n}$ $(n \in \mathbb{N})$

Aufgabe 3

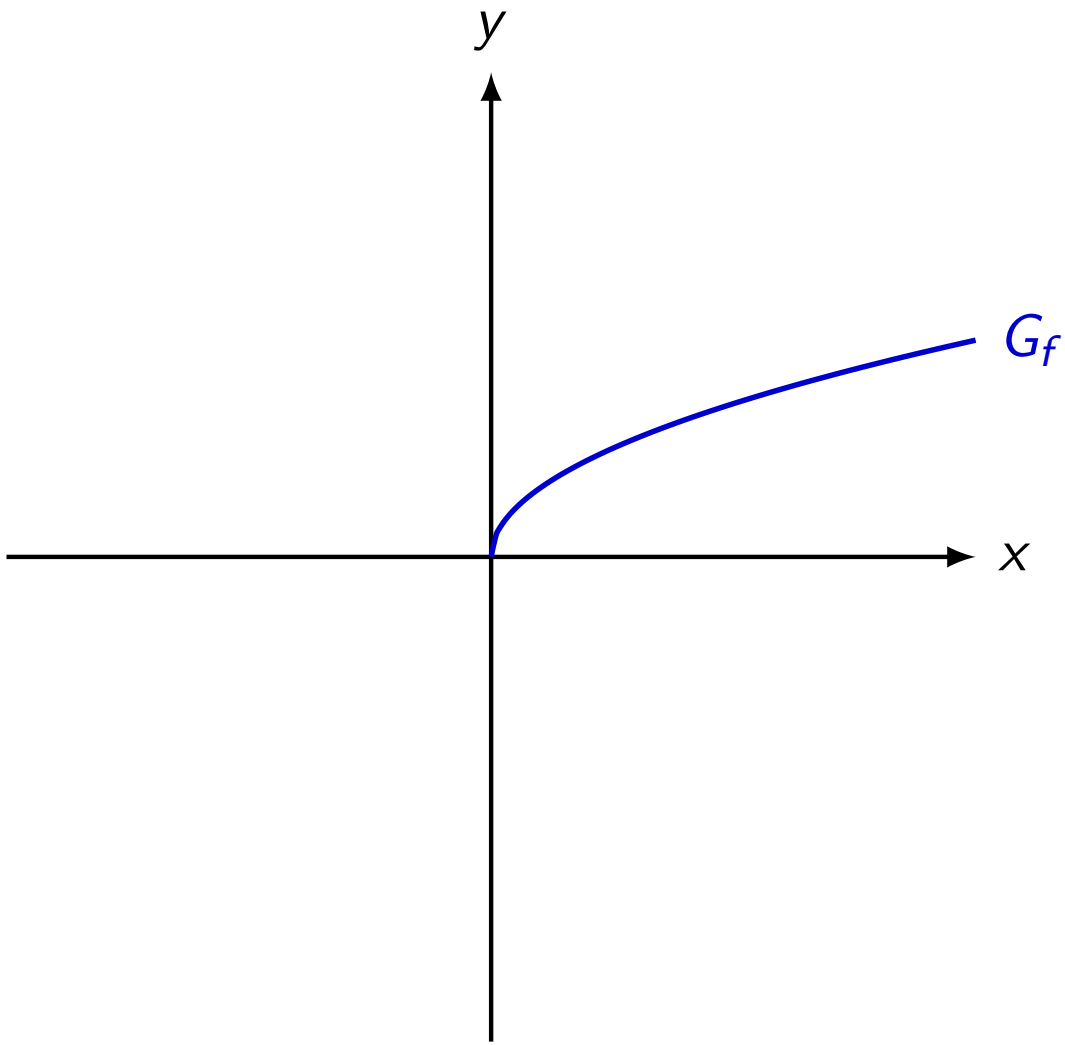


Aufgabe 3

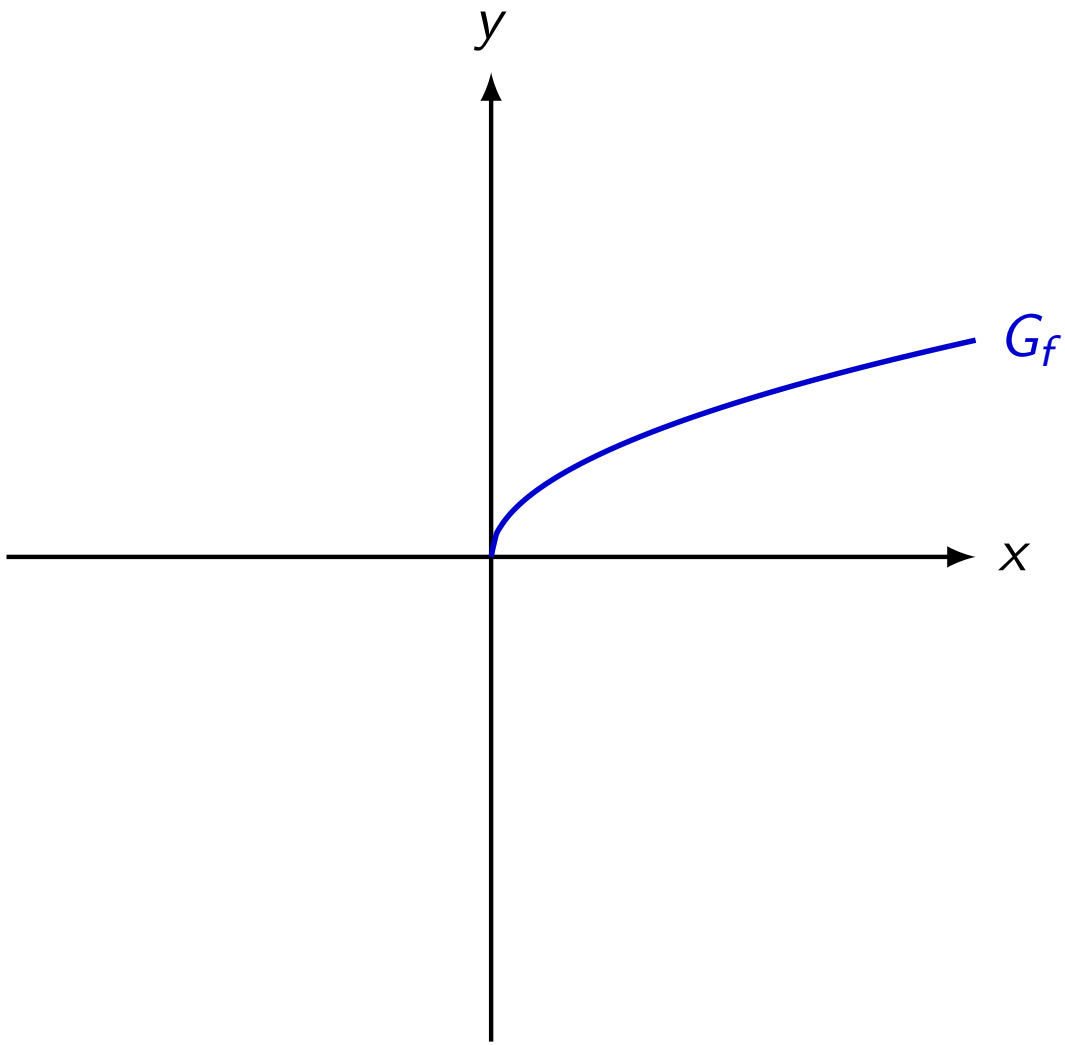


Cosinusfunktion: $f(x) = \cos(x)$

Aufgabe 4

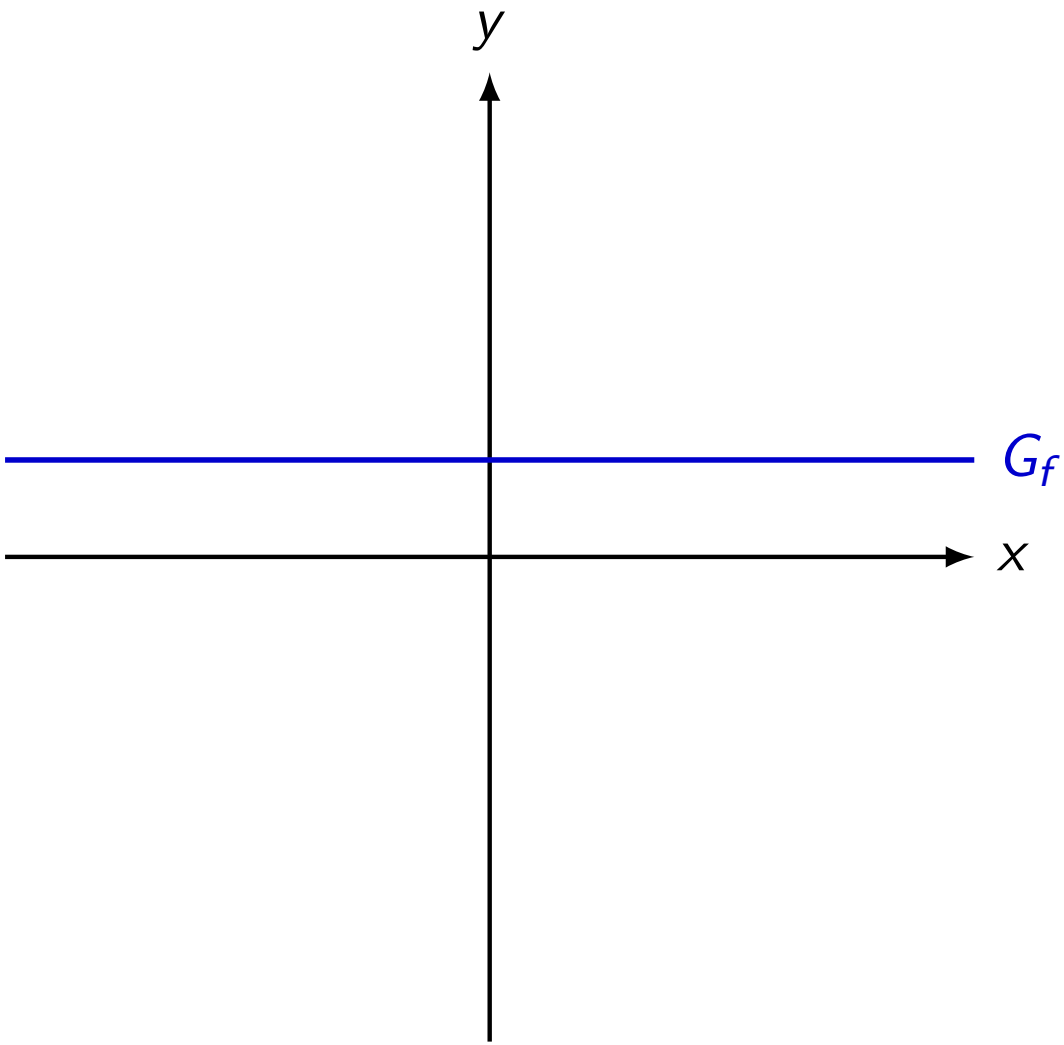


Aufgabe 4

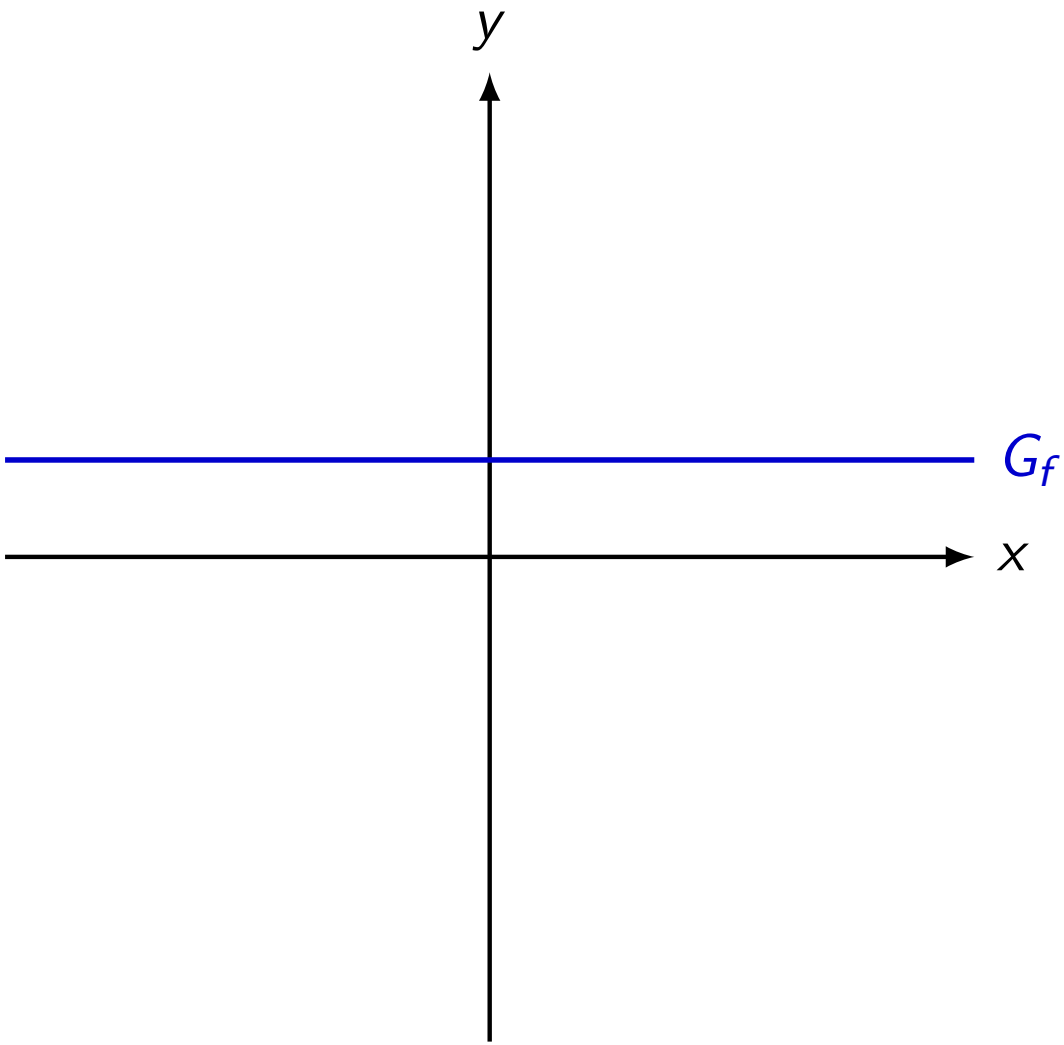


Wurzelfunktion: $f(x) = \sqrt[n]{x}$

Aufgabe 5

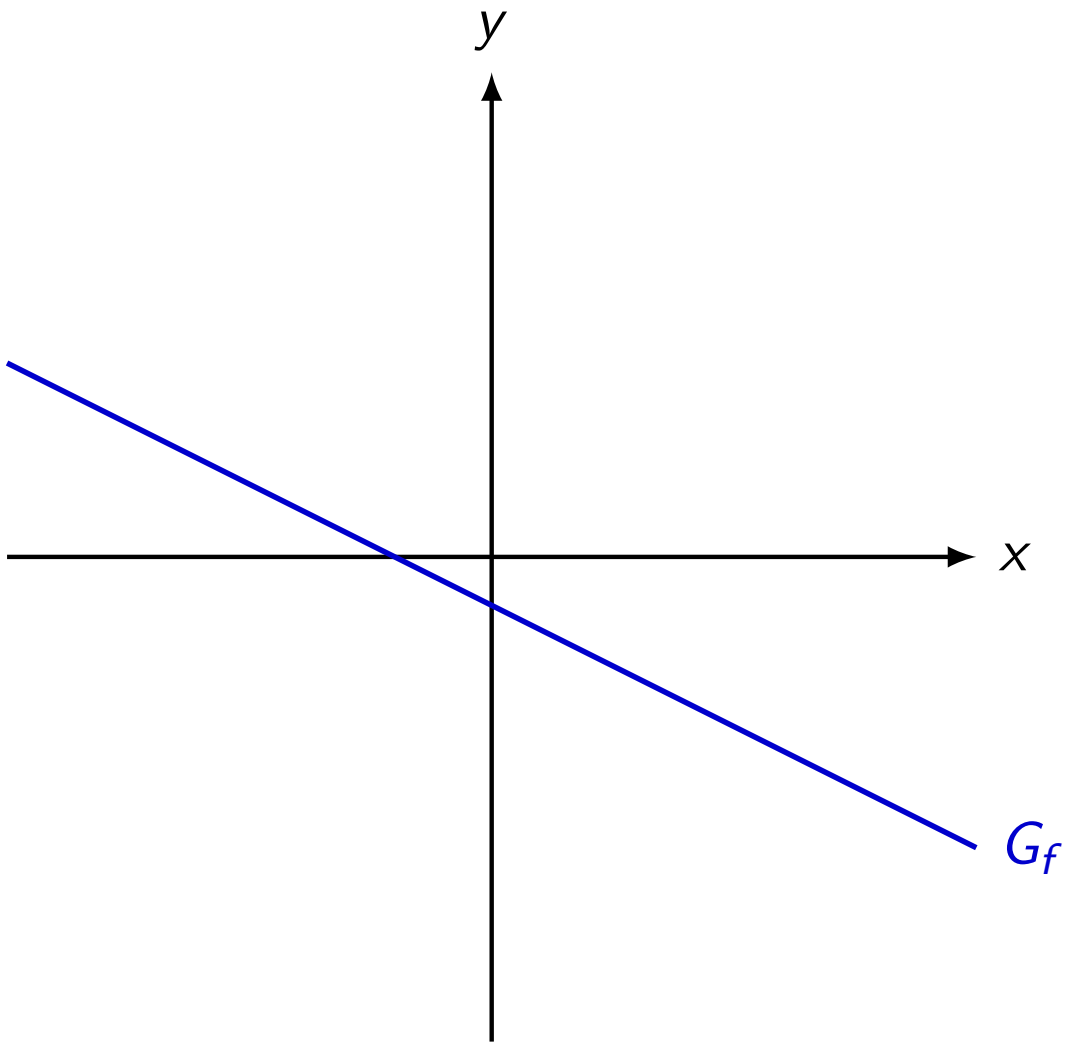


Aufgabe 5

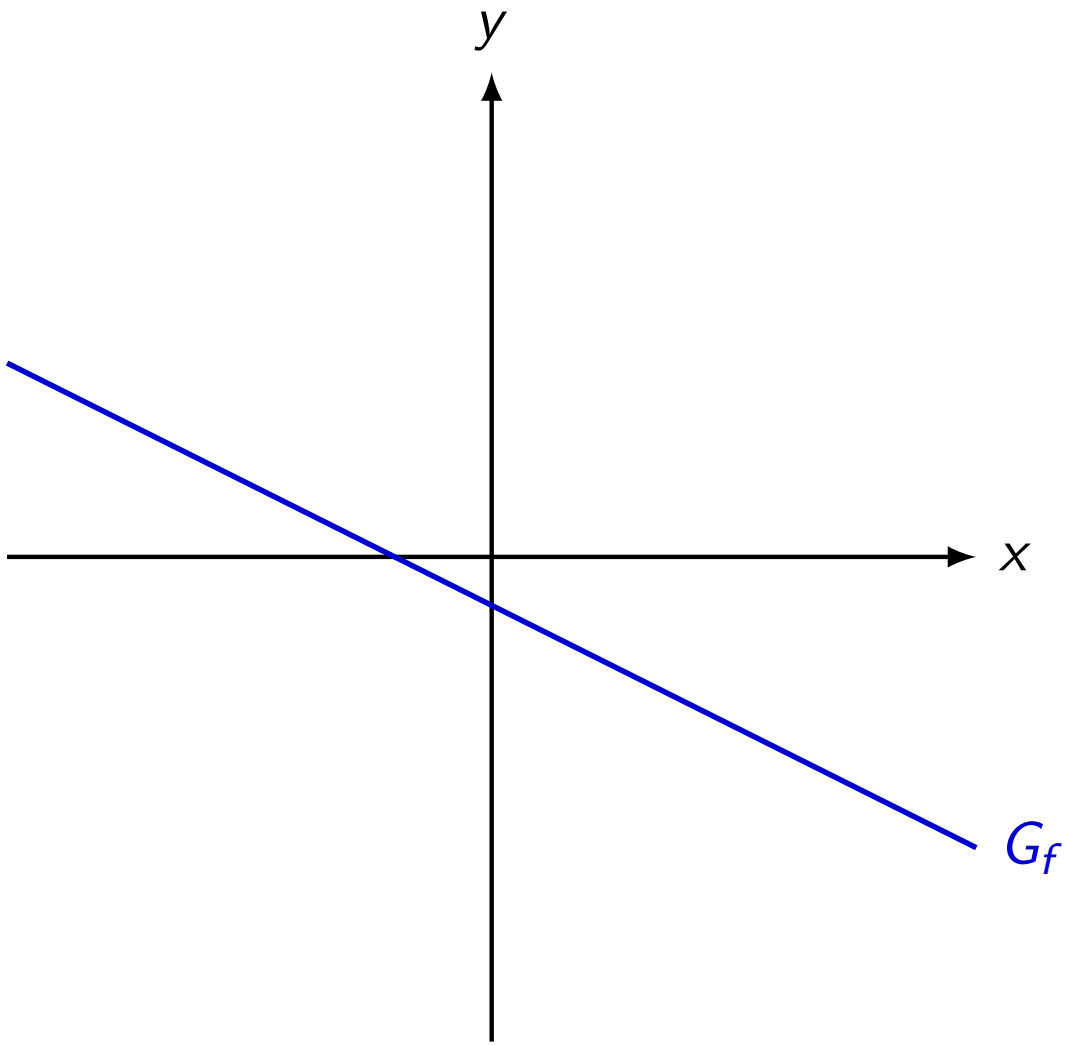


konstante Funktion: $f(x) = c$

Aufgabe 6

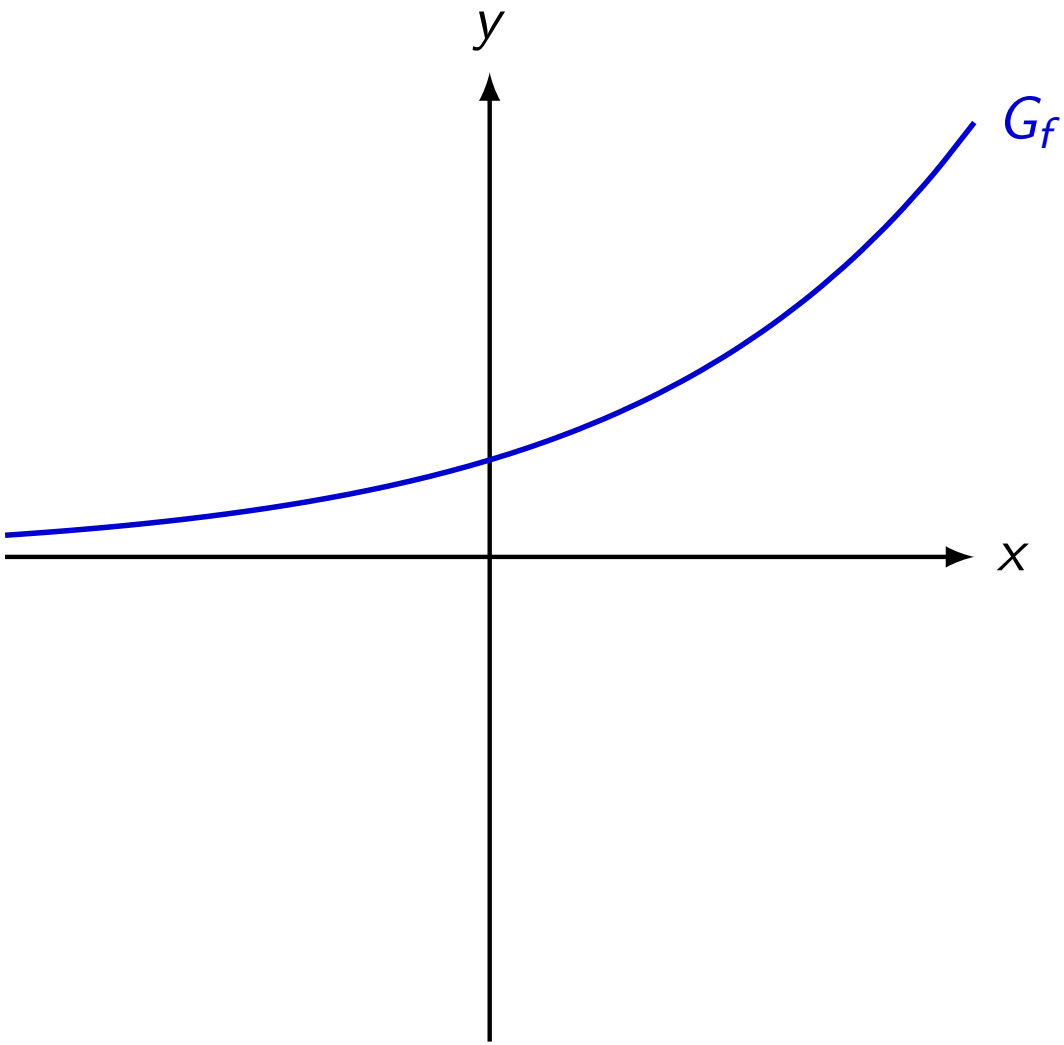


Aufgabe 6

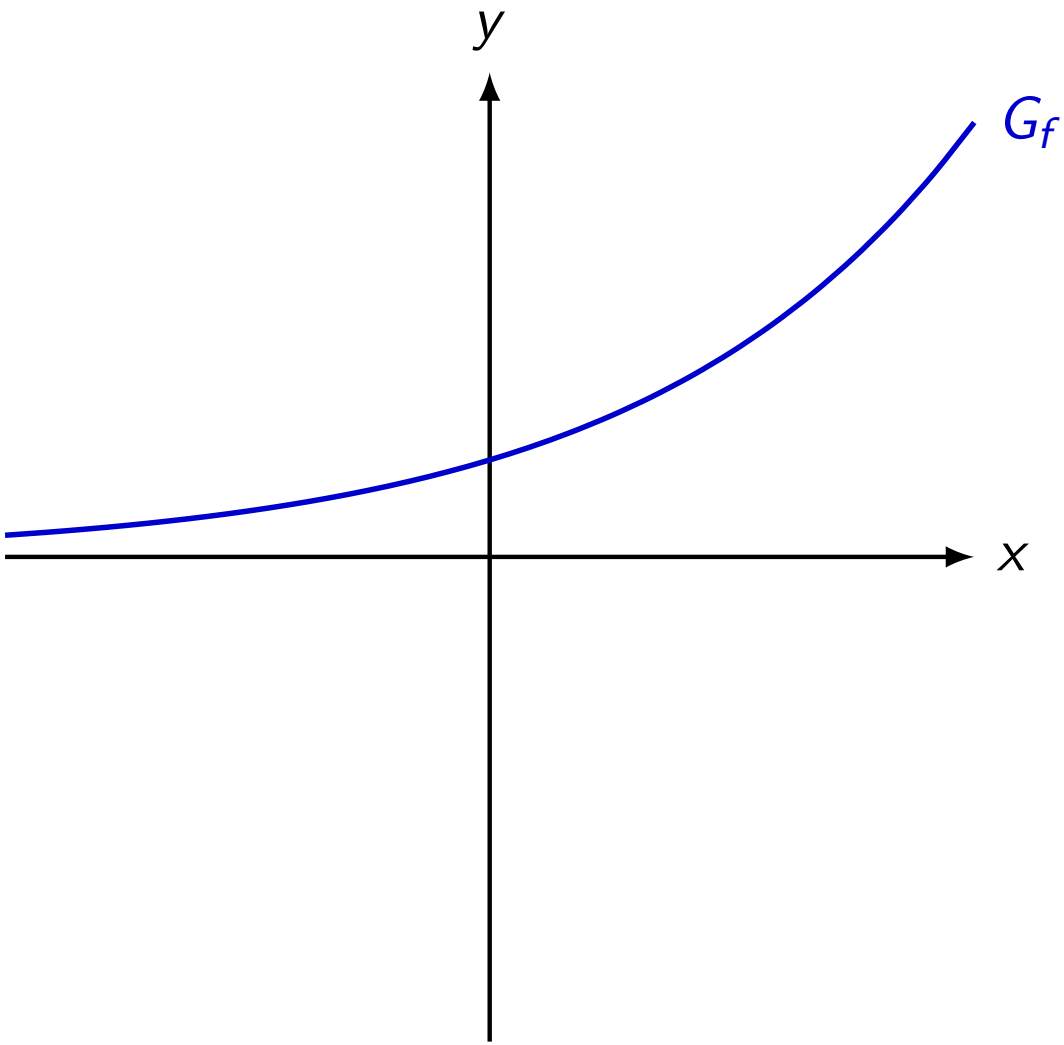


(affin) lineare Funktion: $f(x) = ax + b$

Aufgabe 7

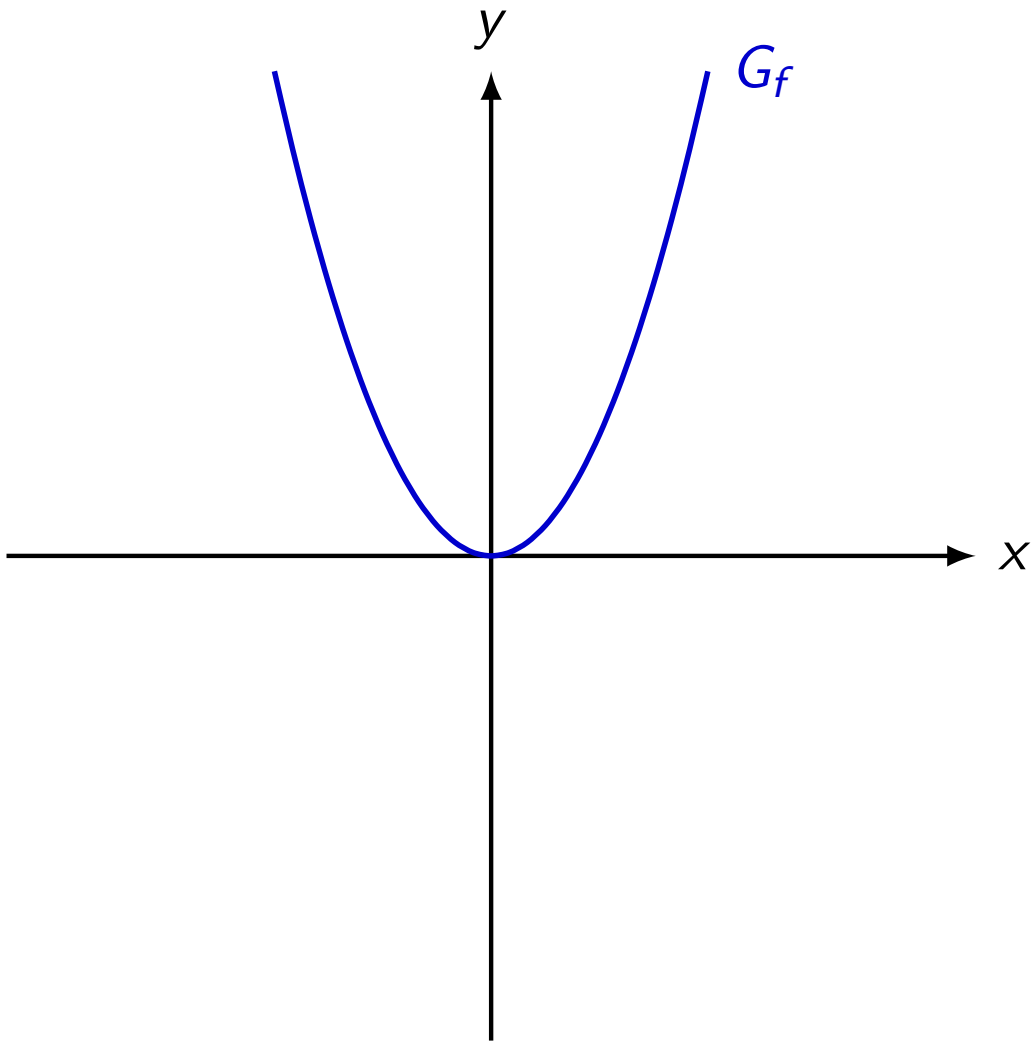


Aufgabe 7

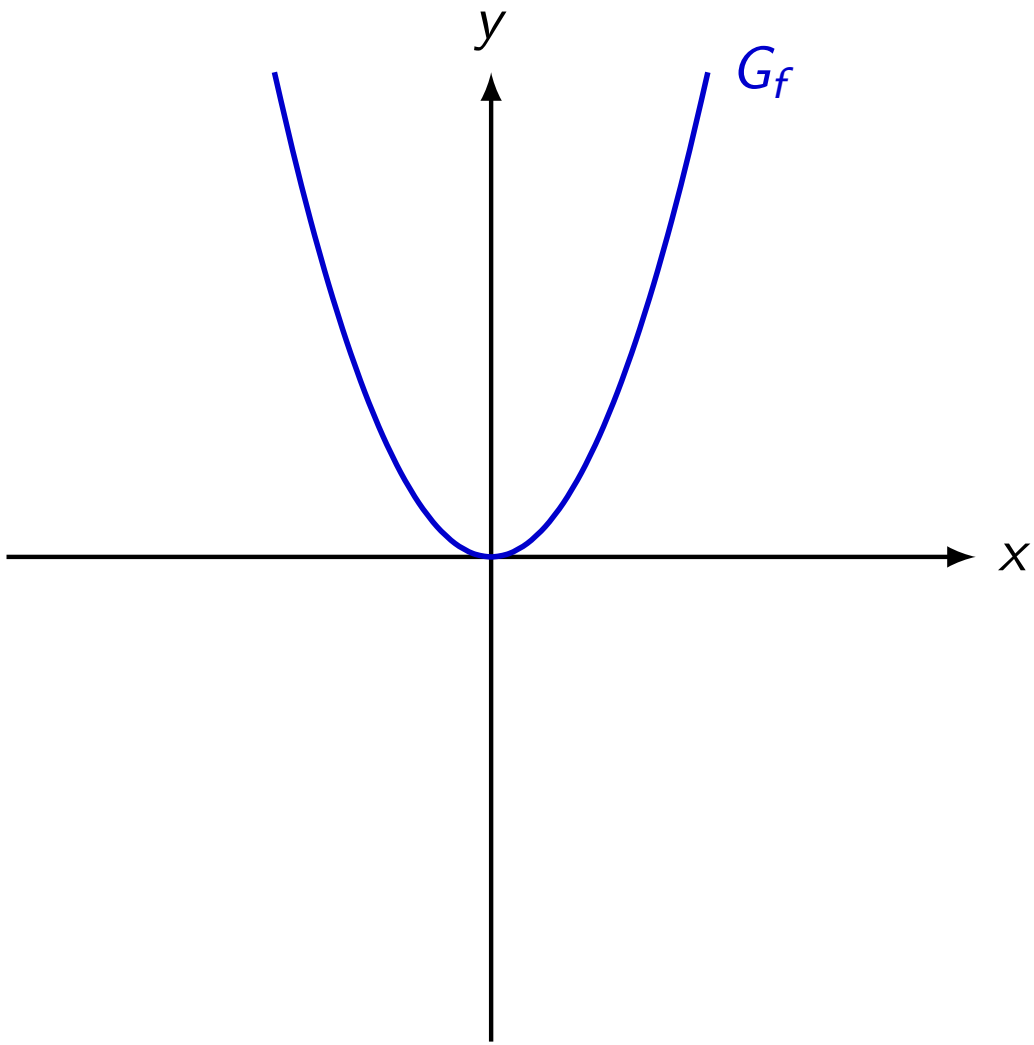


Exponentialfunktion: $f(x) = b^x \ (b > 1)$

Aufgabe 8

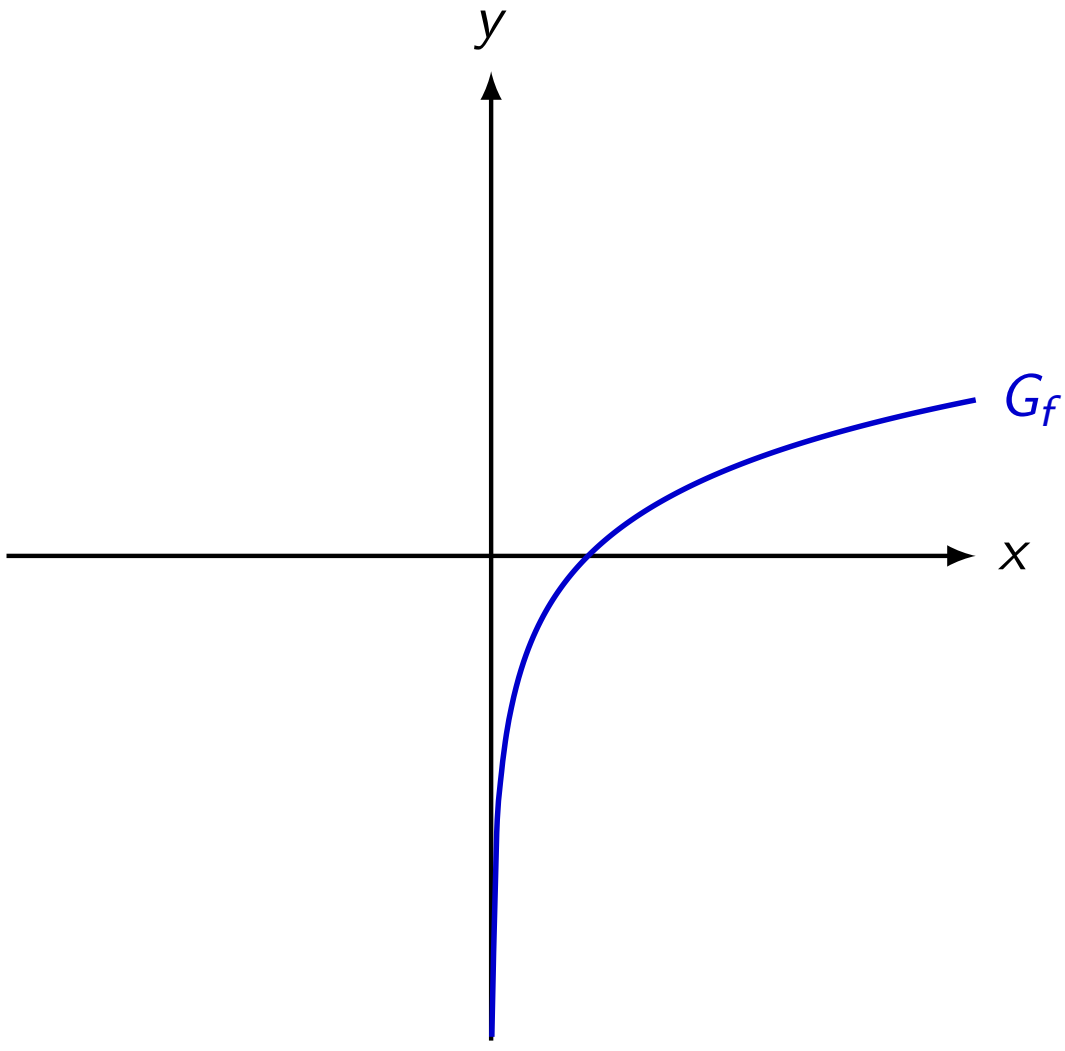


Aufgabe 8

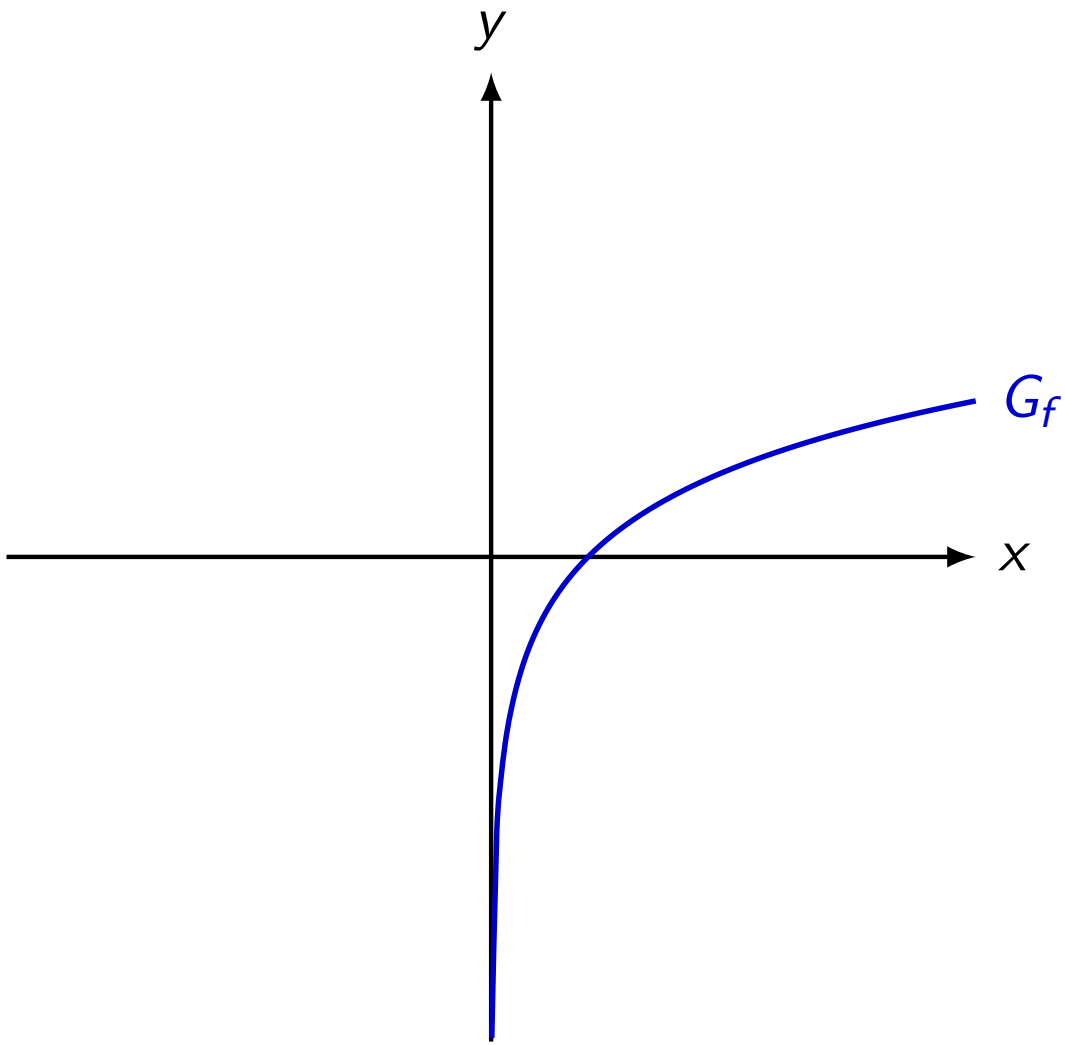


Potenzfunktion: $f(x) = x^{2n}$ $(n \in \mathbb{N})$

Aufgabe 9

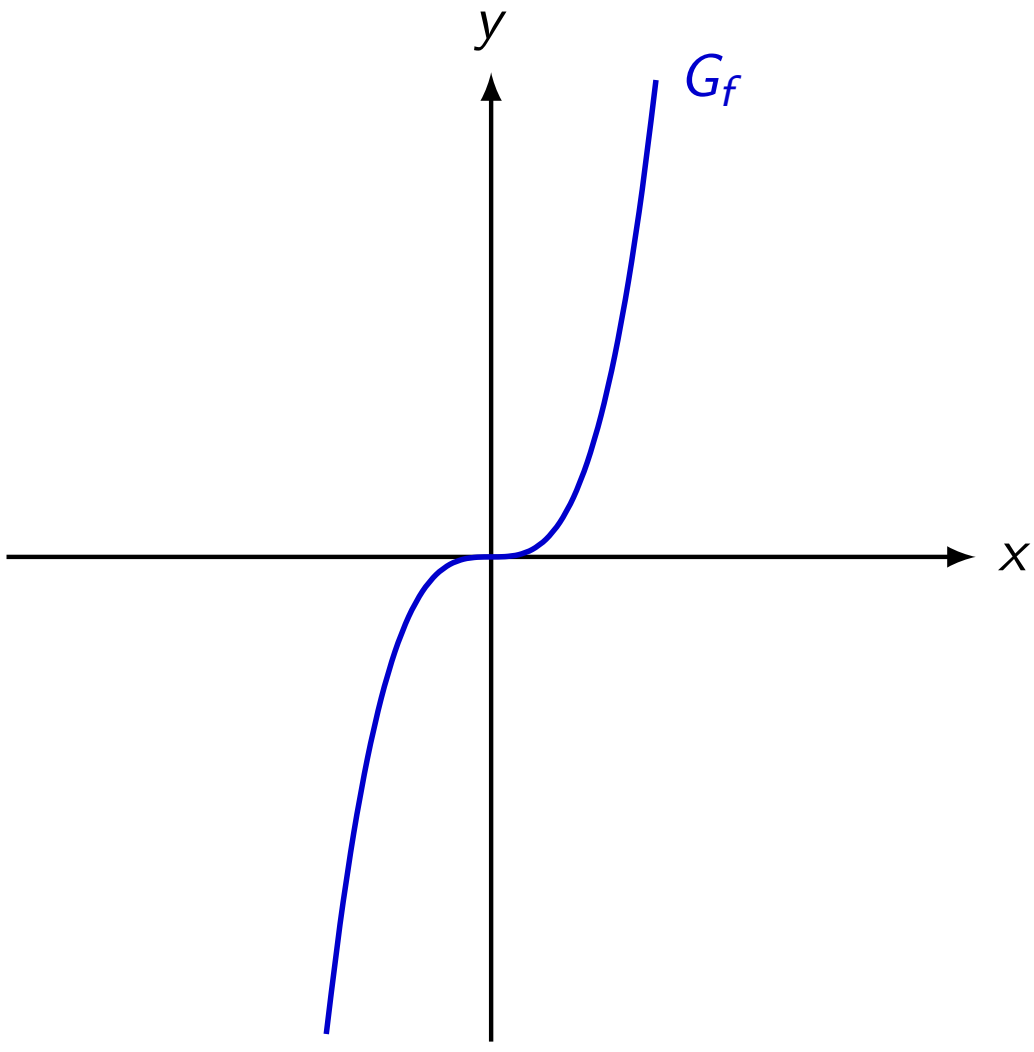


Aufgabe 9

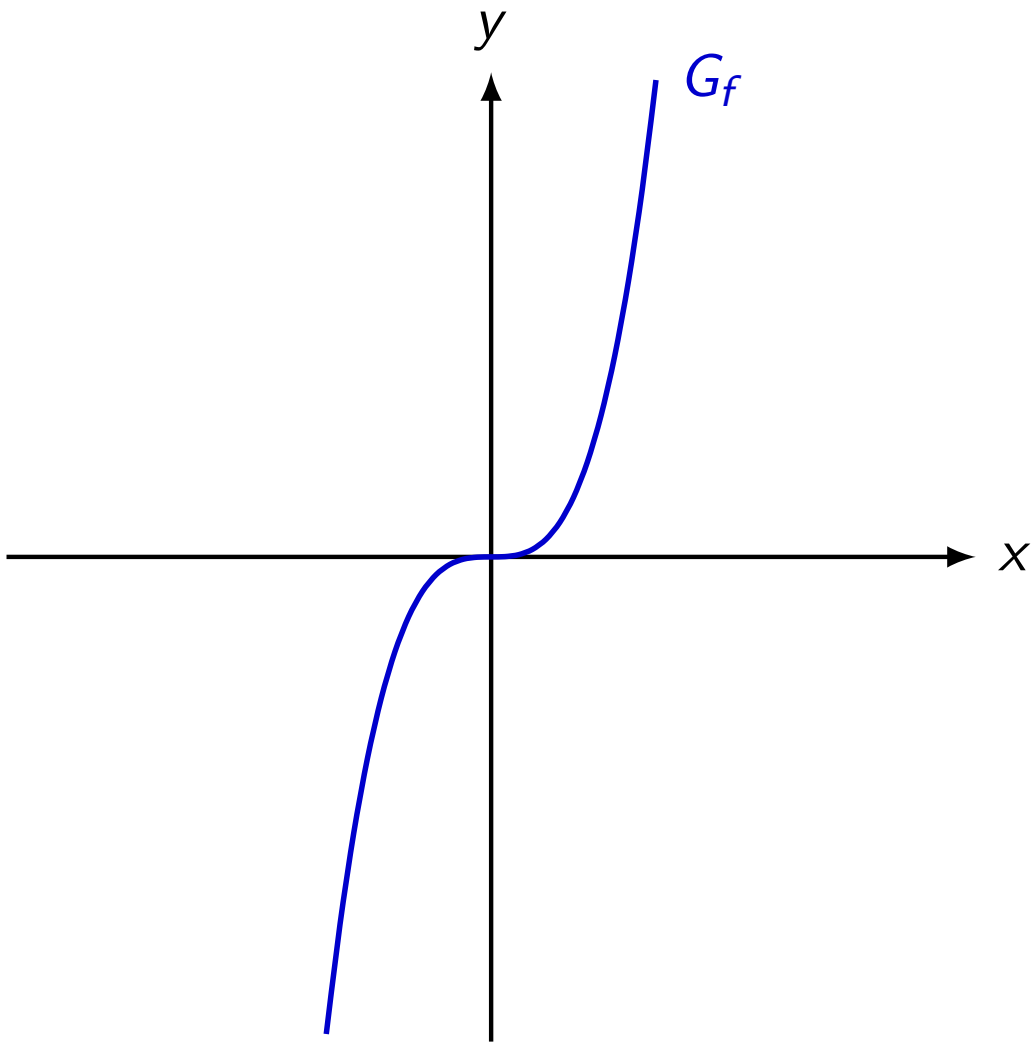


Logarithmusfunktion: $f(x) = \log_b x \ (b > 1)$

Aufgabe 10

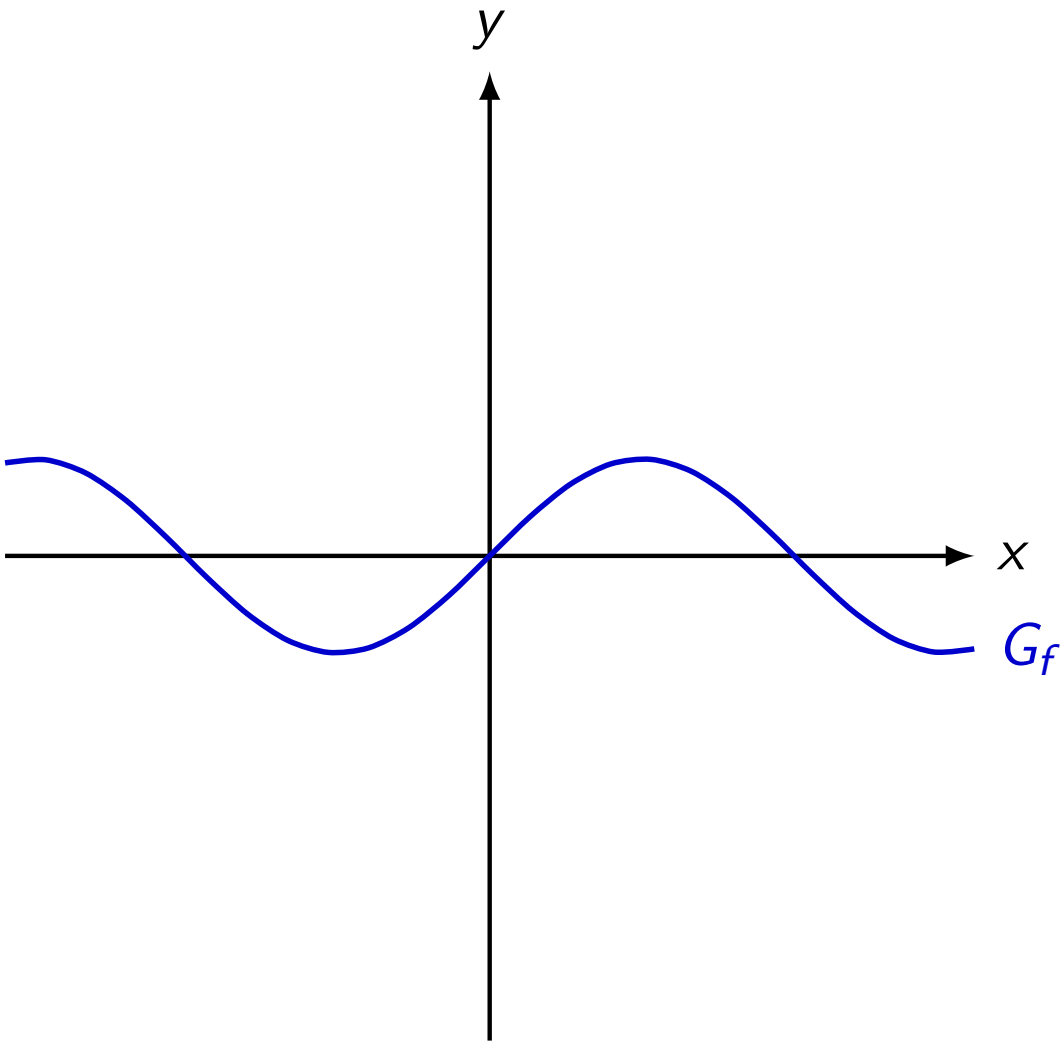


Aufgabe 10

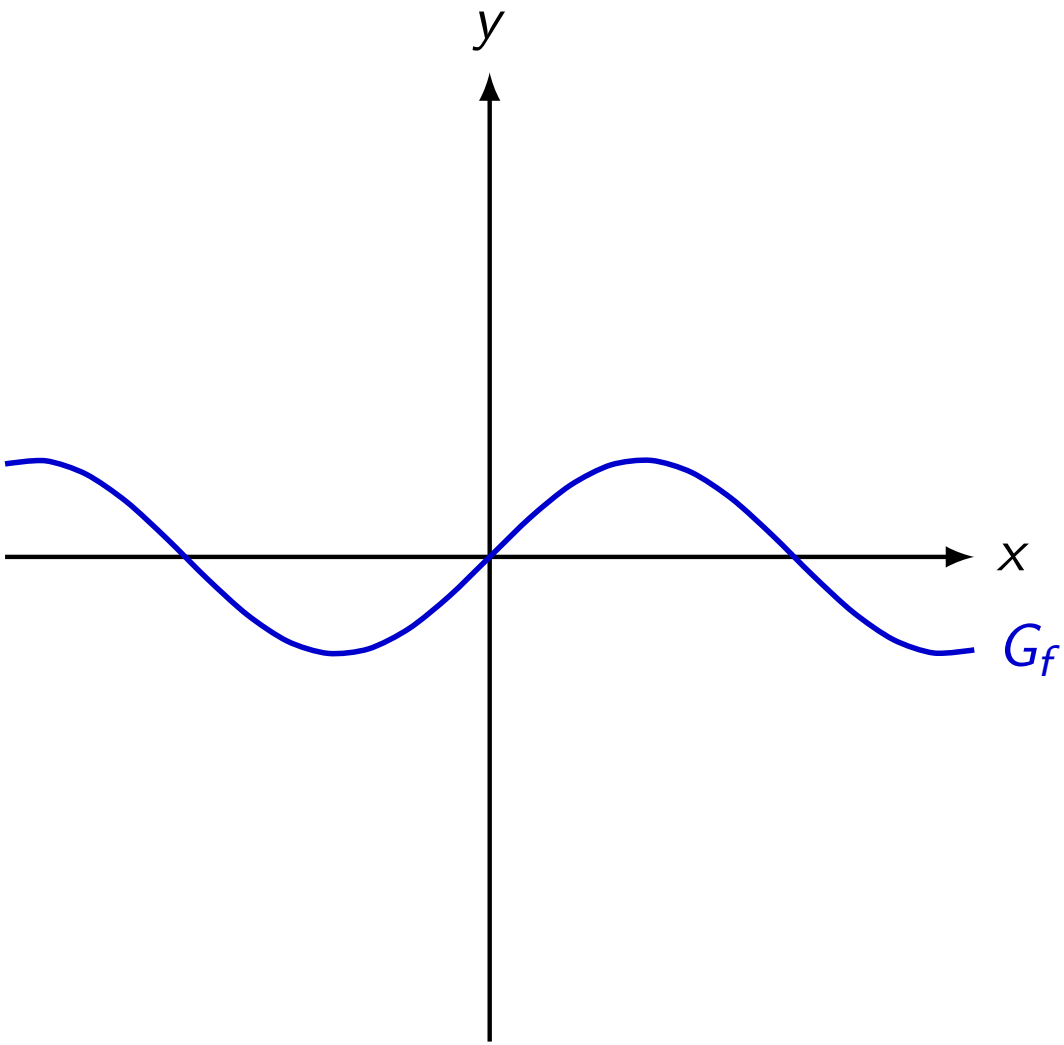


Potenzfunktion: $f(x) = x^{2n+1}$ $(n \in \mathbb{N})$

Aufgabe 11

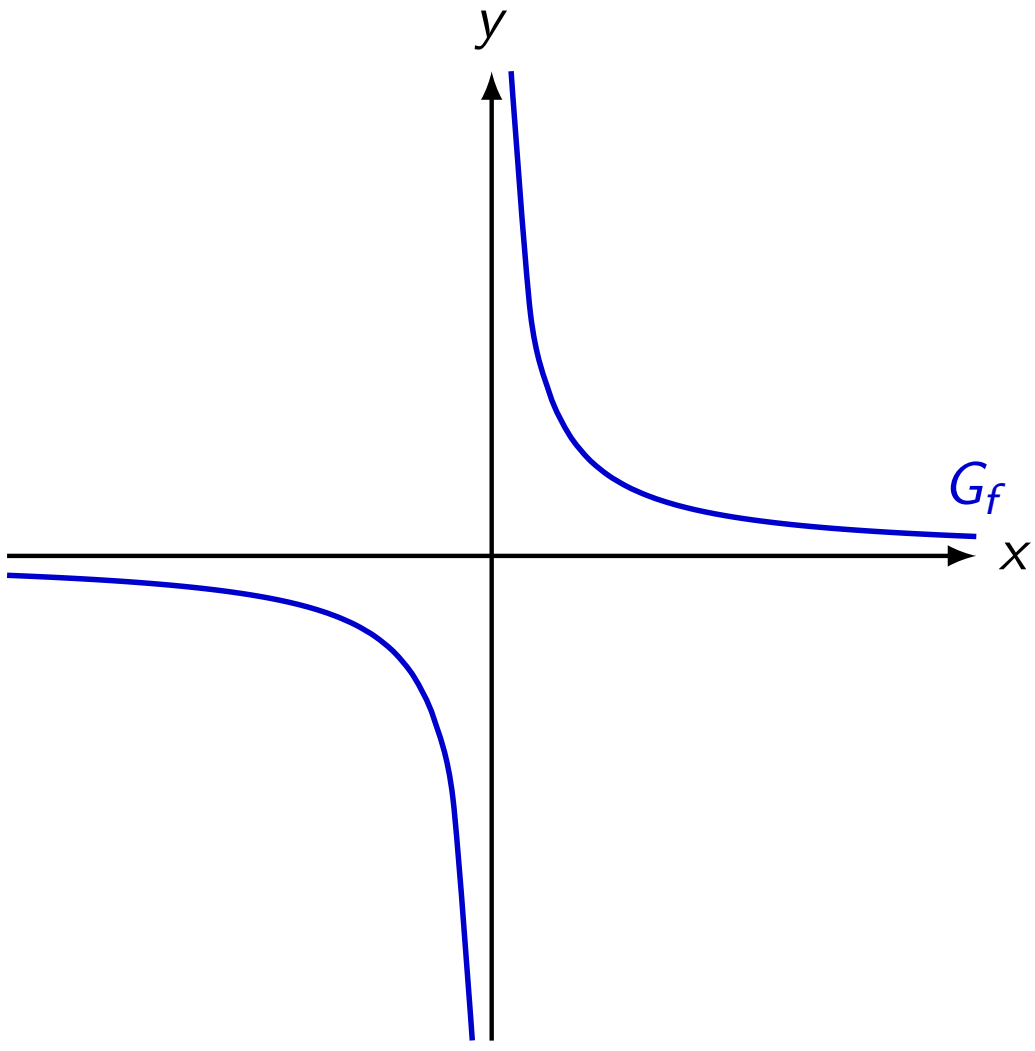


Aufgabe 11

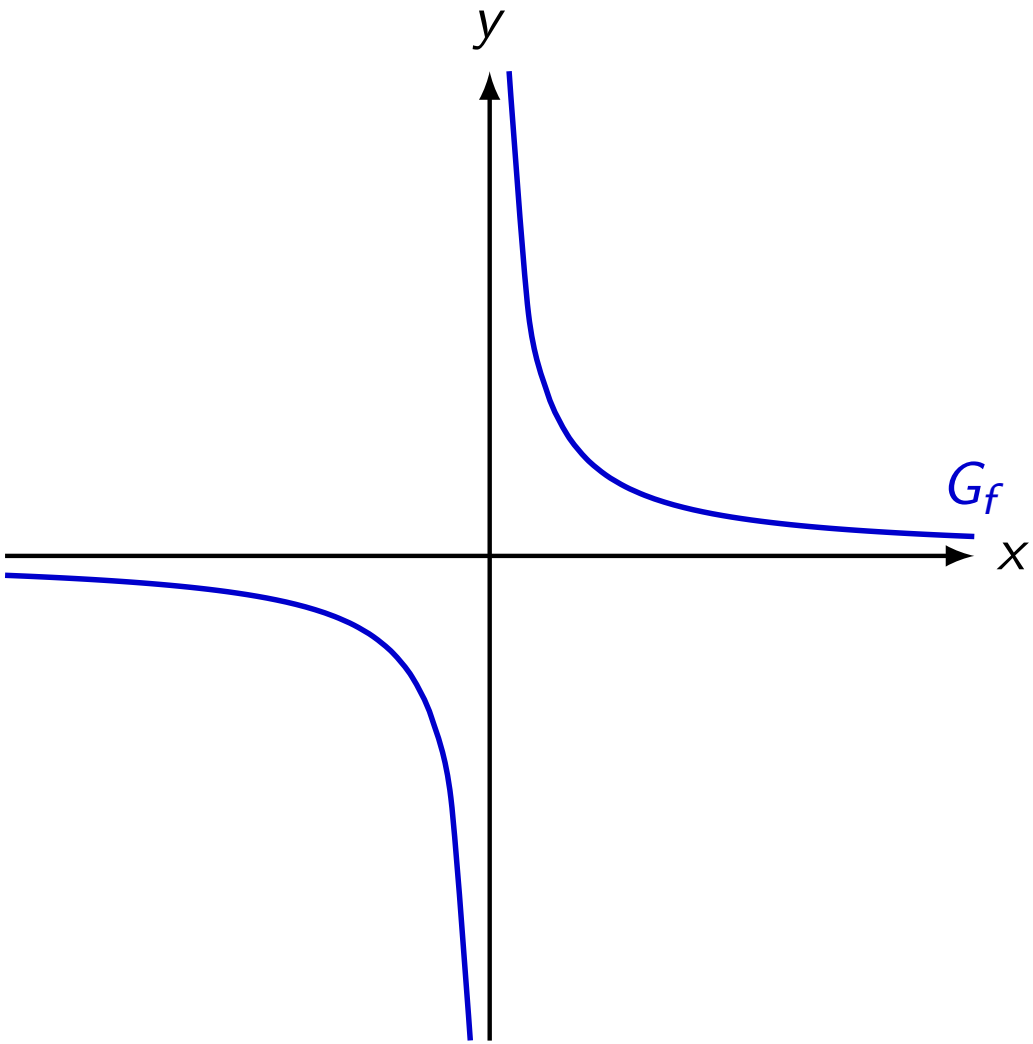


Sinusfunktion: $f(x) = \sin(x)$

Aufgabe 12



Aufgabe 12



Potenzfunktion
$f(x) = x^{-2n+1}$ $(n \in \mathbb{N})$