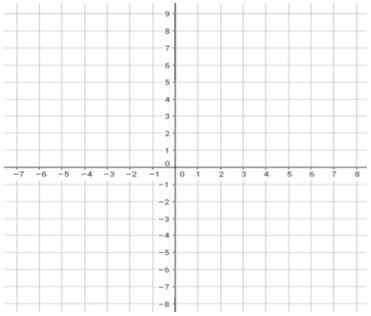
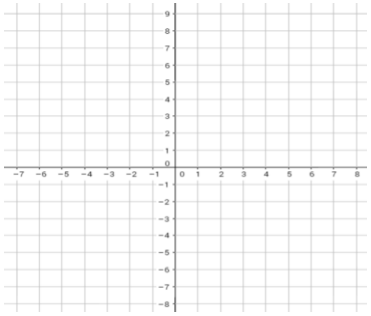
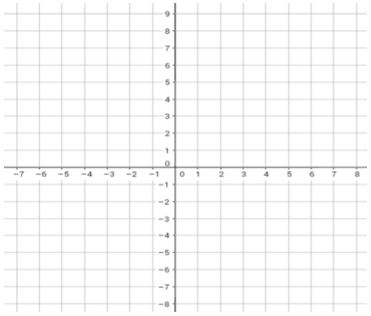
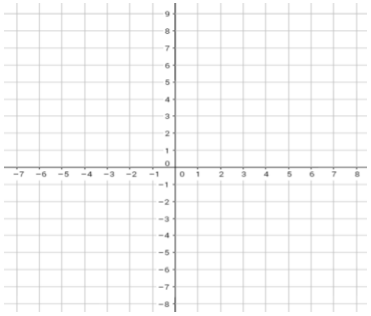
Eigenschaften der Potenzfunktionen

Eigenschaften $n \in \mathbb{N}$	**f(x) = x^n n gerade** x^2, x^4, x^6, …	**f(x) = x^n n ungerade** x^3, x^5, x^7, …	**f(x) = x^{-n} n gerade** x^{-2}, x^{-4}, x^{-6}, …	**f(x) = x^{-n} n ungerade** x^{-3}, x^{-5}, x^{-7}, …
Form				
D(f) W(f)				
gemeinsame Punkte				
Schnittpunkt mit der y-Achse Schnittpunkt mit der x-Achse				
Symmetrie				
Maximum /Minimum				
$\lim_{x\to\infty} f(x)$ $\lim_{x\to-\infty} f(x)$				
Monotonie				