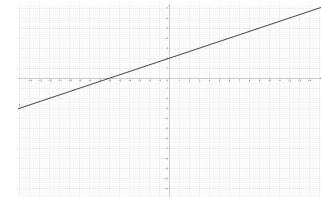
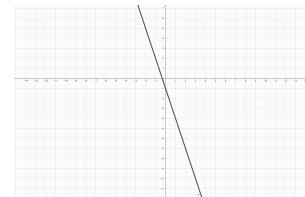
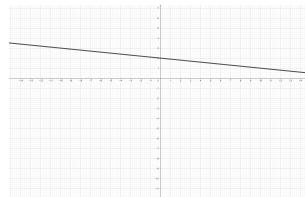
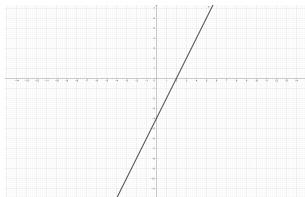


Ganzrationale Funktionen

Notiere für jede Funktion die Anzahl der Nullstellen und das Unendlichkeitsverhalten!

Grad 1:

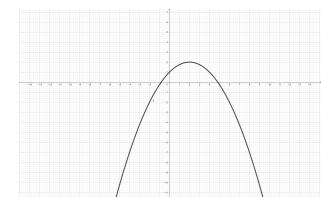
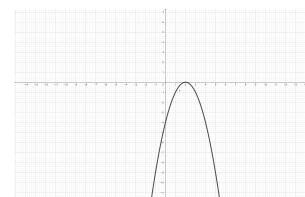
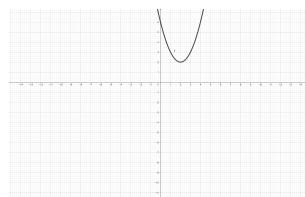
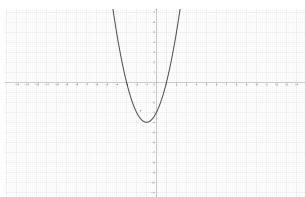


Nullstellen:

$x \rightarrow \infty :$

$x \rightarrow -\infty :$

Grad 2:

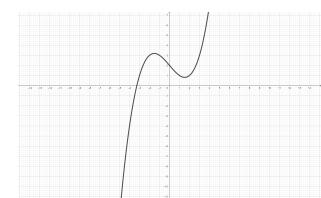
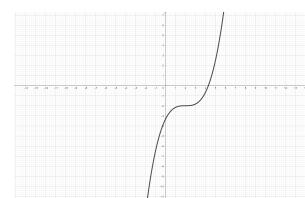
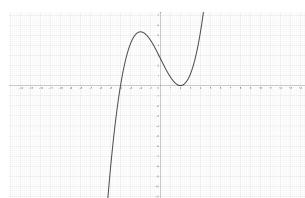
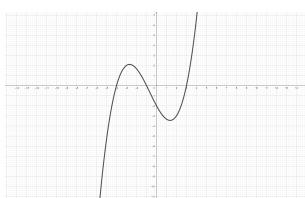


Nullstellen:

$x \rightarrow \infty :$

$x \rightarrow -\infty :$

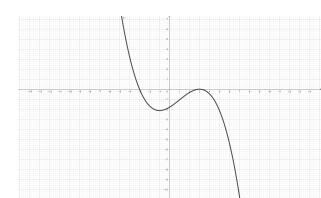
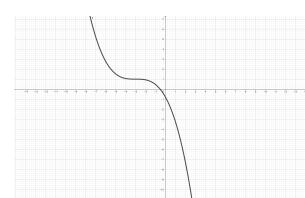
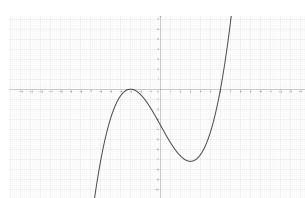
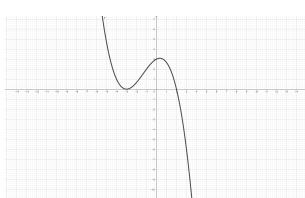
Grad 3:



Nullstellen:

$x \rightarrow \infty :$

$x \rightarrow -\infty :$

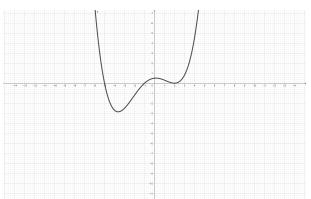
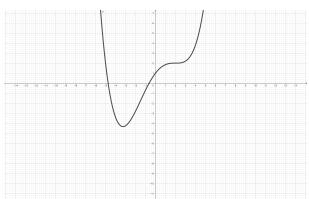
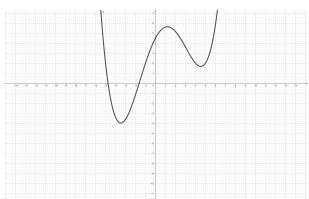
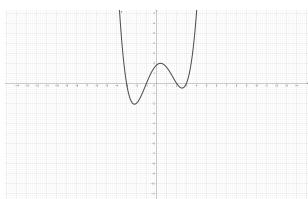


Nullstellen:

$x \rightarrow \infty :$

$x \rightarrow -\infty :$

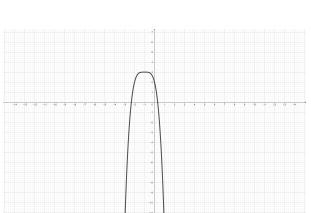
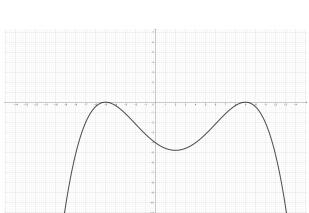
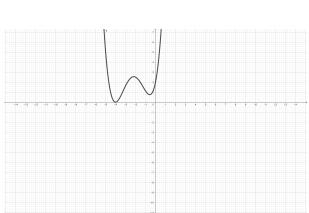
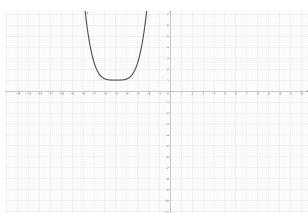
Grad 4:



Nullstellen:

$x \rightarrow \infty :$

$x \rightarrow -\infty :$

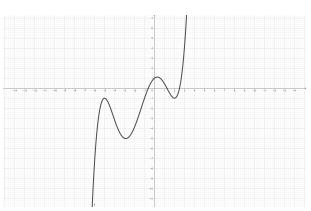
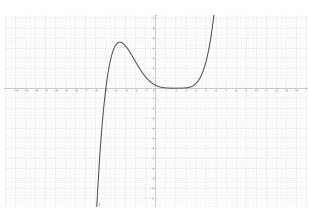
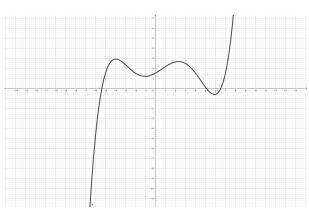
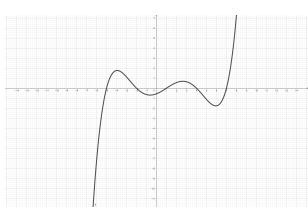


Nullstellen:

$x \rightarrow \infty :$

$x \rightarrow -\infty :$

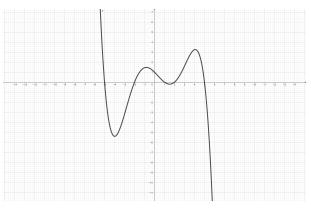
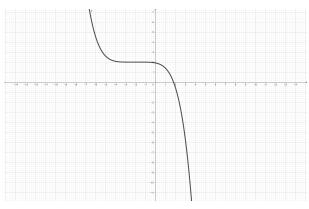
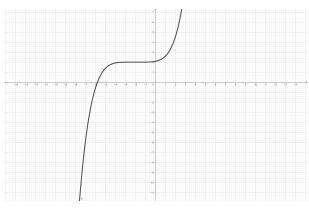
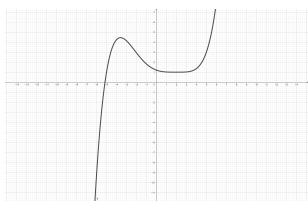
Grad 5:



Nullstellen:

$x \rightarrow \infty :$

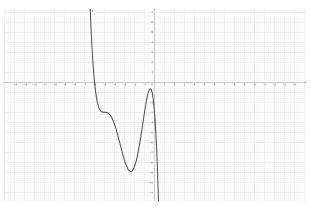
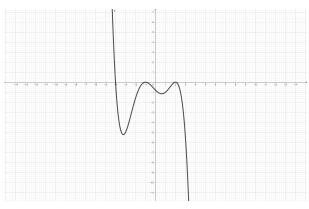
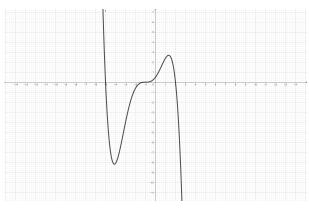
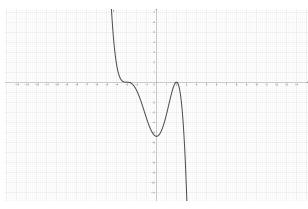
$x \rightarrow -\infty :$



Nullstellen:

$x \rightarrow \infty :$

$x \rightarrow -\infty :$



Nullstellen:

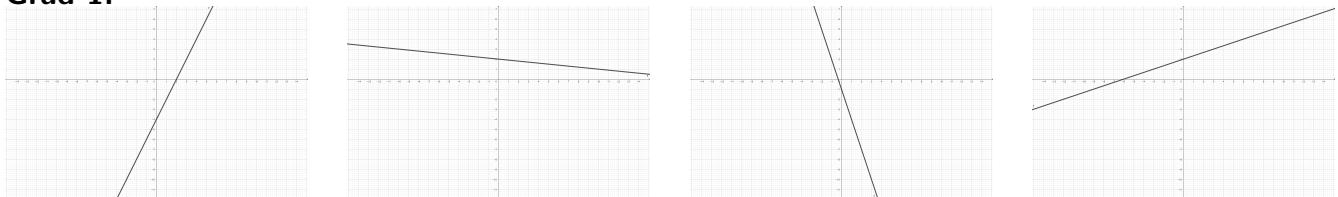
$x \rightarrow \infty :$

$x \rightarrow -\infty :$

Ganzrationale Funktionen

Notiere für jede Funktion die Anzahl der Hoch-/Tief- und Wendepunkte! Notiere außerdem die Summe der Hoch- und Tiefpunkte!

Grad 1:



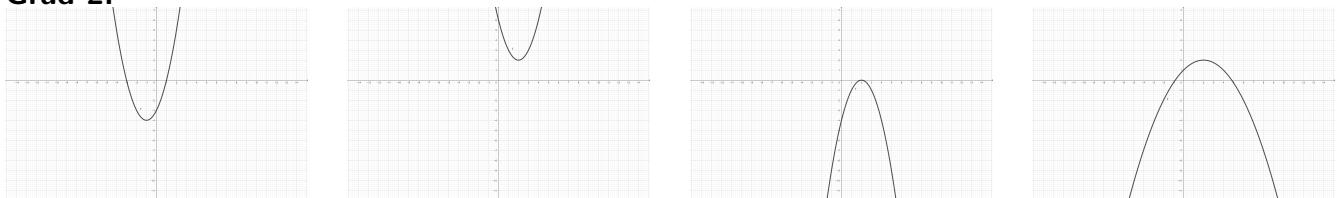
Hochpunkte:

Tiefpunkte:

Summe:

Wendepunkte:

Grad 2:



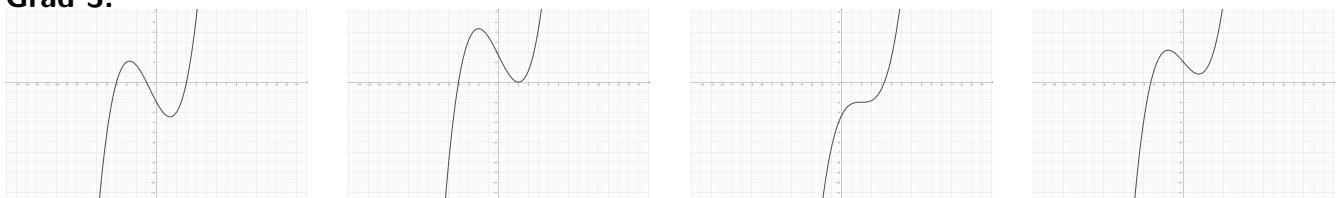
Hochpunkte:

Tiefpunkte:

Summe:

Wendepunkte:

Grad 3:

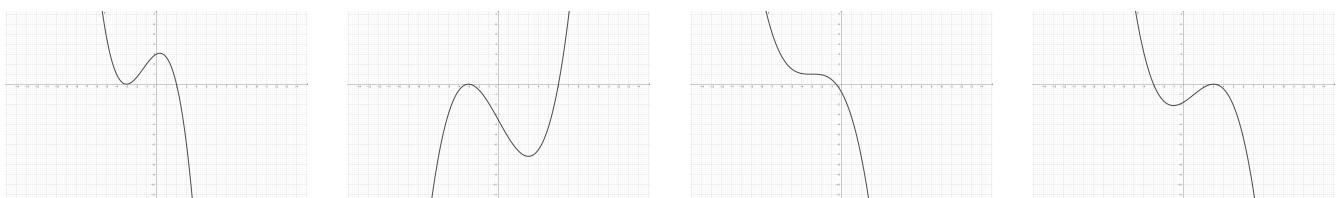


Hochpunkte:

Tiefpunkte:

Summe:

Wendepunkte:



Hochpunkte:

Tiefpunkte:

Summe:

Wendepunkte:

