

1.1 Kurvendiskussion  
(Geradenfunktionen)

## Nullstellenbestimmung

- Nullstellen
- $f(x) = x^2 + 5x + 2$
- Substituieren:  $x^2 + 5x + 2 = 0$
- Quadratische Formel:  $x = \frac{-5 \pm \sqrt{25 - 8}}{2}$
- $f(x) = 2x^2 + x + 7$

## Symmetrie

- Achsensymmetrie zur y-Achse:  $f(-x) = f(x)$  für alle  $x \in \mathbb{R}$
- Alle Exponenten von  $x$  sind gerade
- Punktsymmetrie zum Ursprung:  $-f(-x) = f(x)$  für alle  $x \in \mathbb{R}$
- Alle Exponenten von  $x$  sind ungerade

## Globalverlauf

- Abhängig von: Grad  $n$  und Leitkoeffizient  $a_n$
- $n$  gerade und  $a_n$  positiv:  $f(x) \rightarrow +\infty$
- $n$  gerade und  $a_n$  negativ:  $f(x) \rightarrow -\infty$
- $n$  ungerade und  $a_n$  positiv:  $f(x) \rightarrow -\infty$
- $n$  ungerade und  $a_n$  negativ:  $f(x) \rightarrow +\infty$

Wendepunkte und Krümmungsverhalten  
(= Stärkste Zunahme / Abnahme)

- Notwendige Bedingung:  $f''(x) = 0$
- Hinreichende Bedingung: VZW der zweiten Ableitung

## Krümmungstabelle (VZW)

$x$	$x < x_w$	$x_w$	$x > x_w$
$f''(x)$	+	0	-
$G_f$			

Kein Vorzeichenwechsel  $\Rightarrow$  allg. Flachpunkt (FP)

Alternativ:

 $f''(x_w) = 0$  und  $f'''(x_w) \neq 0 \Rightarrow$  Wendestelle

(FP ist Wendepunkt mit horizontaler Tangente)

- Funktionswerte bestimmen:  $f(x_w) = y_w$

## 1.2 Steckbriefaufgaben

- Gegeben: z. B.  $f(x) = ax^4 + bx^3 + cx^2 + dx + e$   
Welches  $a$ -Potenz entspricht Grad gesuchter Funktion?  
Achsensymmetrisch:  $f(x) = ax^4 + bx^2 + c$ , Punktsymmetrie:  $f(x) = ax^3 + bx$ ; 1. und 2. Ableitung bestimmen.
- Mindestens so viele verschiedene Angaben finden, wie Koeffizienten in Funktionsgleichung  $\Rightarrow$  Gleichungen aufstellen.
- Gleichungen lösen (z. B. eine Gleichung nach einer Variablen auflösen und in andere Gleichung einsetzen, ...)

Wegpunkt Tangente bei $x = 2$	$f(2) = 0$
Wendepunkt bei $x = 3$	$f'(3) = 0$
Wendepunkt bei $f(202)$	$f''(202) = 0$ und $f'''(202) \neq 0$
Graph berührt die x-Achse bei $x = 3$	$f(3) = 0$ und $f'(3) = 0$
Im Wendepunkt $\left(\frac{1}{2}, \frac{1}{2}\right)$ verläuft die Wendetangente	$f'\left(\frac{1}{2}\right) = \frac{1}{2}$ und $f\left(\frac{1}{2}\right) = \frac{1}{2}$
$f(x) = x^3 + 2$	$f'(x) = 3x^2$
Steigt alle Gerade $y = 3x - 7$ auf der $y$ -Achse	$f'(0) = -7$
Die Tangente in $P(-1 2)$ ist parallel zur Geraden $y = 2x$	$f'(-1) = 2 \cdot (-1) = -2$

## 1.3 Extremwertaufgaben

- Aufstellung des Problems (z. B. "maximiert werden")
- Formulieren der Randbedingungen
- Einsetzen
- Bestimmen der Zielfunktion ( $f'(x) = 0$ )
- Extremwerte bestimmen (z. B.  $f''(x) > 0$  (Min),  $f''(x) < 0$  (Max))
- Extremwerte berechnen (z. B.  $f(x)$  einsetzen und vgl. welches  $x$  das Maximum/Minimum liefert)

## Lösen von Exponentialgleichungen

- Exponentialgleichungen lösen: z. B.  $1 + 2x^{2^x} = 9$
- $\Rightarrow 2x^{2^x} = 8 \Rightarrow x^{2^x} = 4 \Rightarrow \ln(x^{2^x}) = \ln(4) \Rightarrow x = \frac{\ln(4)}{2}$
- z. B.  $64 = 8 \cdot 2^x \Rightarrow 8 = 2^x \Rightarrow \ln(8) = \ln(2^x) \Rightarrow x = 3$

## Tipps für Wachstumsaufgaben

- Abbildung von verschiedenen e-Fkt und generationalen Fkt. üben
- Fragestellungen

Werte der Parameter bestimmen  
Errechnen Sie, welche Menge (y-Wert) nach x-Jahren erreicht ist.

Berechnen Sie nach wie vielen Jahren (x-Wert) ... ein bestimmter y-Wert erreicht ist.  
Geben Sie, dass ... Stärkstes Wachstum ...

... Monotonieverhalten prüfen.

Grenzwert interpretieren (z. B.  $x \rightarrow \infty$ )

$f'(x)$  interpretieren

## Extrempunkte / Horizontalstellen und Monotonieverhalten

- Notwendige Bedingung:  $f'(x) = 0$
- Hinreichende Bedingung: VZW der ersten Ableitung

## Monotonietabelle / Vorzeichenstabelle (VZT)

$x$	$x < x_0$	$x_0$	$x_0 < x < x_1$	$x_1$
$f'(x)$	+	0	-	0
$G_f$				

Alternativ:  $f'(x) = 0$  und  $f''(x) < 0 \Rightarrow$  lok. Maxoder analog:  $f'(x) = 0$  und  $f''(x) > 0 \Rightarrow$  lok. Min $f'(x) = 0$  und  $f''(x) = 0 \Rightarrow$  Wendepunktoder:  $f'(x) = 0$ ,  $f''(x_0) = 0$ ,  $f'''(x_0) \neq 0$ 

- Lage der Extrempunkte bestimmen: Wert  $x_0$  in  $f$  einsetzen:  $f(x_0)$

## Zusammenhang zwischen den Graphen

- $f(x)$   $\rightarrow$  y-Werte
- $f'(x)$   $\rightarrow$  Steigungswerte
- $f''(x)$   $\rightarrow$  Krümmungswerte

- $G_f$  monoton steigend / fallend im Intervall  $I$   
 $\Rightarrow f'(x) \geq 0$  /  $f'(x) \leq 0$  für  $x \in I$
- Extremstelle von  $f$  ist Nullstelle von  $f'$  mit VZW
- Terrassenstelle von  $f$  ist Nullstelle von  $f'$  ohne VZW
- Wendestelle von  $f$  ist Extrempunkt von  $f'$

## 2. Grundlegende Eigenschaften der e-Funktion

$$f(x) = a \cdot e^{b(x-c)} + d$$

- $a > 0$ : steigt **schneller**
- $a < 0$ : steigt **langsamer**
- $a < 0$ : Spiegelung an der **y-Achse**

- $d > 0$ : Verschiebung nach **rechts**
- $d < 0$ : Verschiebung nach **links**

- $y_0 > 0$ : Verschiebung nach **oben**
- $y_0 < 0$ : Verschiebung nach **unten**
- Wagrechte Asymptote bei  $y = y_0$

- $a < 0$ : Spiegelung an der **y-Achse**
- $a < 0$ : steigt **schneller** gegen
- Unendlich bzw. gegen die Asymptote

- $a < 0$ : steigt **langsamer** gegen
- Unendlich bzw. gegen die Asymptote

## Ableitungsregeln

- $f(x) = e^x \Rightarrow f'(x) = e^x$ ; z. B.  $f(x) = e^{2x} \Rightarrow f'(x) = 2e^{2x}$
- Produktregel:  $f(x) = u(x) \cdot v(x) \Rightarrow f'(x) = u'(x) \cdot v(x) + u(x) \cdot v'(x)$
- Kettenregel:  $f(x) = u(v(x)) \Rightarrow f'(x) = u'(v(x)) \cdot v'(x)$
- z. B.  $g(x) = (2x^2 - 4) \cdot e^{3x} \Rightarrow g'(x) = 4x \cdot e^{3x} + (2x^2 - 4) \cdot 3e^{3x}$
- $g'(x) = 4x \cdot e^{3x} + 6x^2 \cdot e^{3x} - 12e^{3x}$
- $= (4x + 6x^2 - 12) \cdot e^{3x}$

## + Integrationsrechnung

## Antifunktionen

$$f(x) = x^2 \Rightarrow F(x) = \frac{1}{3} x^3 + c$$

## Stammfunktionen von Exponentialfunktionen

$$\int a e^x dx = a e^x + c; \quad \int a e^{bx+c} dx = \frac{1}{b} a e^{bx+c} + c$$

## Flächenberechnung

$$A = \int_a^b f(x) dx = [F(x)]_a^b = F(b) - F(a)$$

Merke:

- Wenn Graph nicht gegeben ist, dann Nullstellen berechnen, um herauszufinden, ob gesuchte Fläche oberhalb oder unterhalb der x-Achse liegt. Wenn unterhalb, dann obige Formel im Betrag.
- Flächeninhalt zwischen zwei Graphen: Obere Fkt. - untere Fkt.

# Mathematik Bd2 Analysis

**Ludwig Felix Ofterdinger**



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