Schulung 5

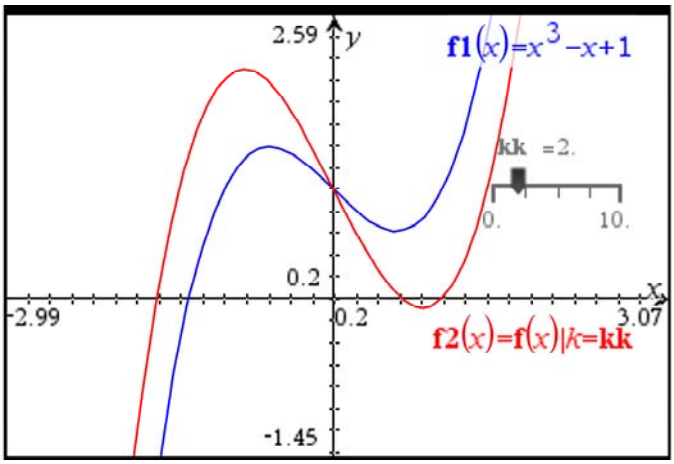
$88^3 \rightarrow 681472$

$f(x):=x^3-k\cdot x+1 \rightarrow Fertig$ $f(x)$

$\frac{d}{dx}(f(x)) \rightarrow 3\cdot x^2-k$

$\frac{d}{dx}(\{f(x),k\cdot x^2\}) \rightarrow \{3\cdot x^2-k,2\cdot k\cdot x\}$

$\{3,10,11.5,17\}^2 \rightarrow \{9,100,121.25,289\}$



$\int f(x)\,dk \rightarrow k\cdot(x^3+1)-\frac{k^2\cdot x}{2}$

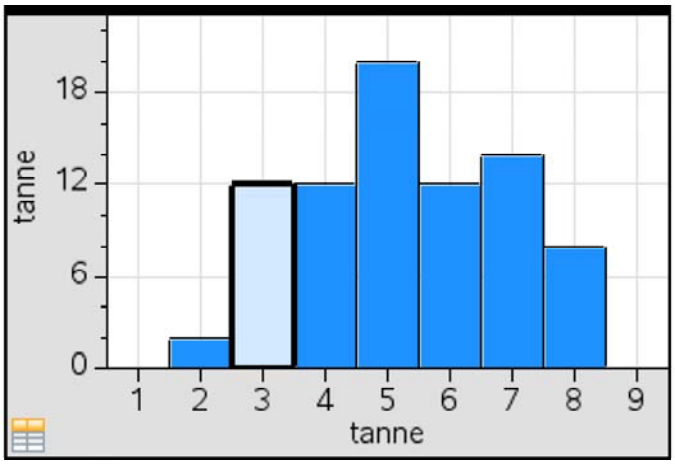
$\frac{d}{dk}(f(x)) \rightarrow -x$

$f(x) \rightarrow x^3-k\cdot x+1$

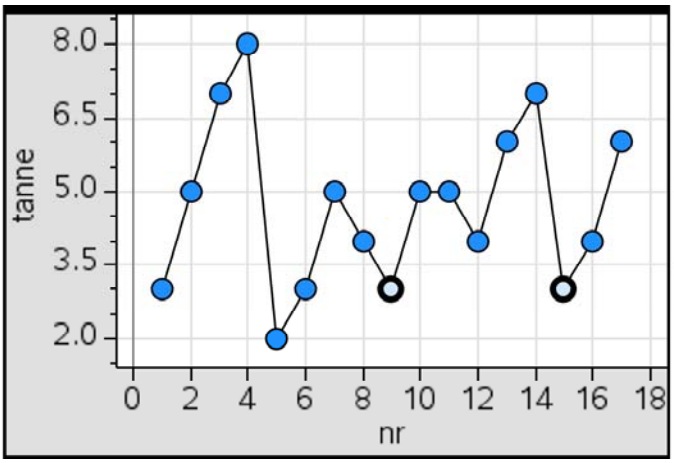
$f(x)|k=2 \rightarrow x^3-2\cdot x+1$

	A nr	B tanne	C	D
1	1	3		
2	2	5		
3	3	7		
4	4	8		
5	5	2		

B tanne



"sx := sn-1x"	1.68689
"σx := σnx"	1.63652
"n"	17.
"MinX"	2.
"Q1X"	3.
"MedianX"	5.
"Q3X"	6.
"MaxX"	8.
"SSX := Σ(x−x̄)²"	45.5294



$\int f(x)\,dk \rightarrow k\cdot(x^3+1)-\frac{k^2\cdot x}{2}$

Elastizität

$$\mathbf{ela}(x) := \frac{\frac{d}{dx}(\mathbf{f}(x)) \cdot x}{\mathbf{f}(x)} \rightarrow \textit{Fertig}$$

$$\mathbf{ela}(x) \rightarrow \frac{x \cdot (3 \cdot x^2 - k)}{x^3 - k \cdot x + 1}$$

Probleme 2

Schulung 5 b

88^3

$\mathbf{f}(x) := x^3 - k \cdot x^2 + 1 \quad \mathbf{f}(x)$

$\frac{d}{dx}(\mathbf{f}(x))$

$\frac{d}{dx}(\{\mathbf{f}(x), k \cdot x^2\})$

$\{3,10,11.5,17\}^2$

$\int \mathbf{f}(x)\, dx$

$\int \mathbf{f}(x)\, dk$

$\frac{d}{dk}(\mathbf{f}(x))$

$\mathbf{f}(x)$

Elastizität

$$\mathbf{ela}(x) := \frac{\frac{d}{dx}(\mathbf{f}(x)) \cdot x}{\mathbf{f}(x)}$$

$\mathbf{ela}(x)$