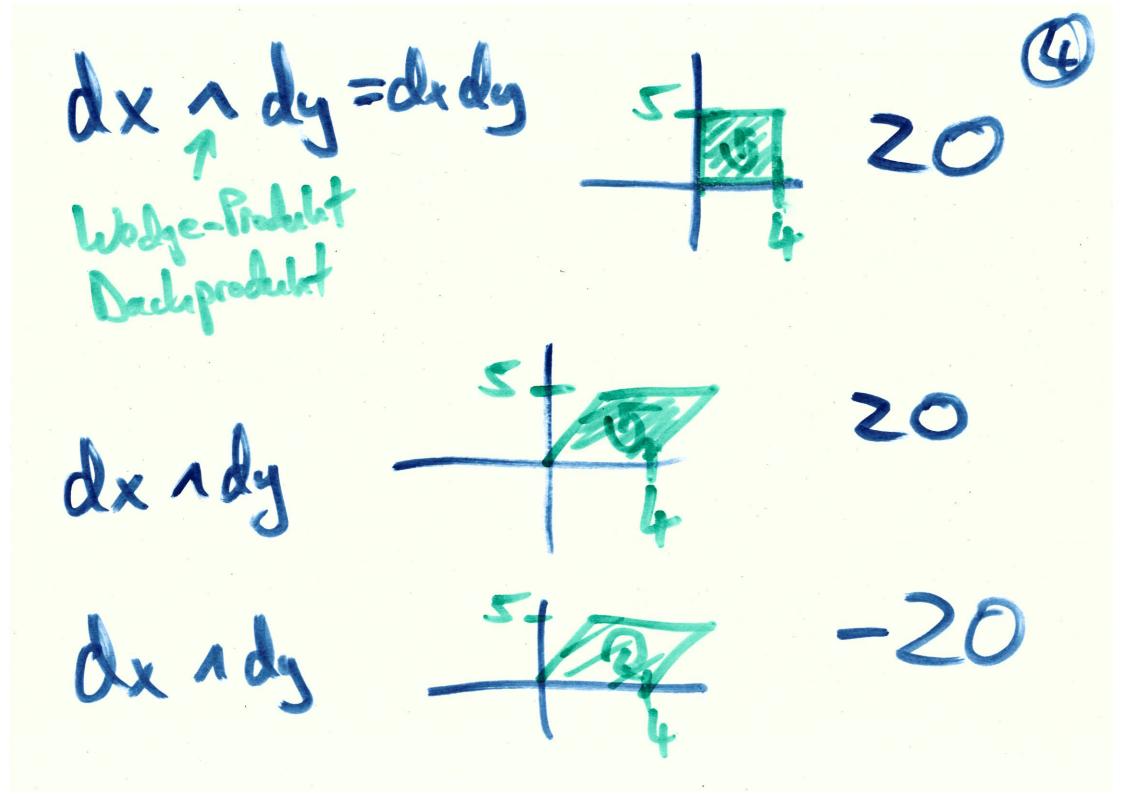
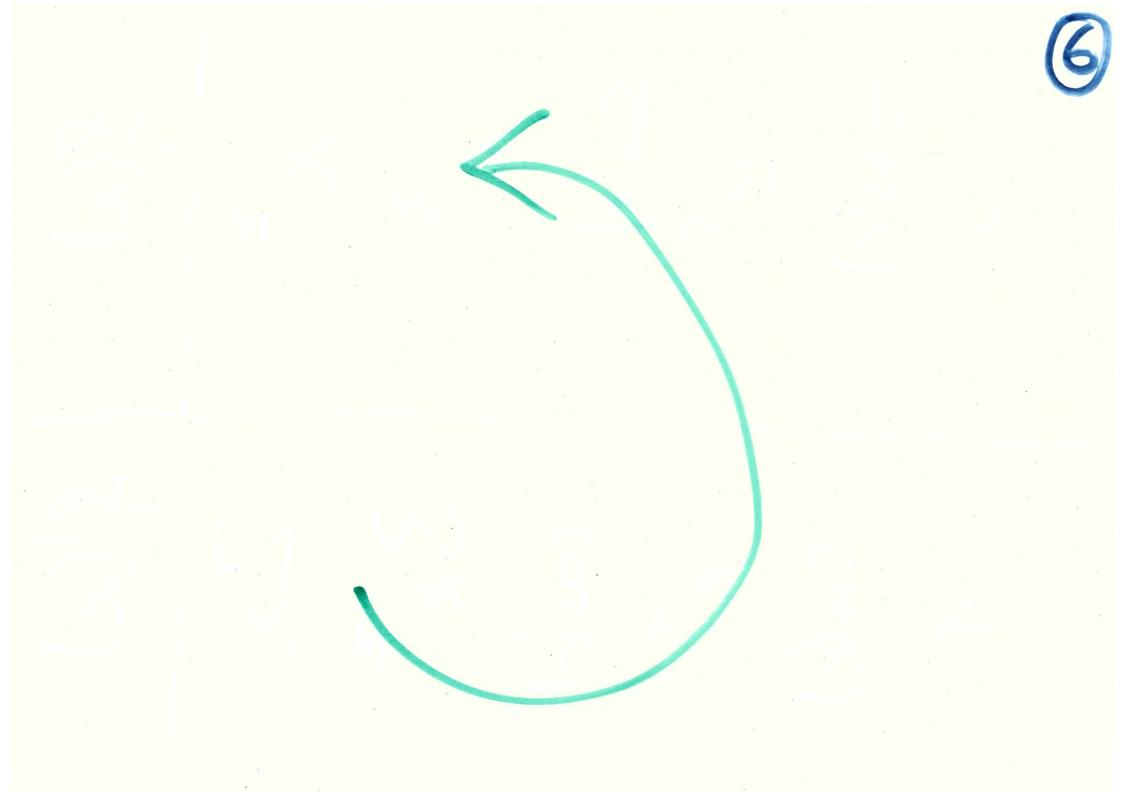
Differentielsen Gebiet Avantin dx 0

8 dy 3+8=11 dx+dy  dx Tolow were.

J 1-Former ab lier:



dy rdx 57 2/ = -(dxrdy) +200 4 5 1/5 O+Q w= dx ady 400 4124-14 452 666 = 0



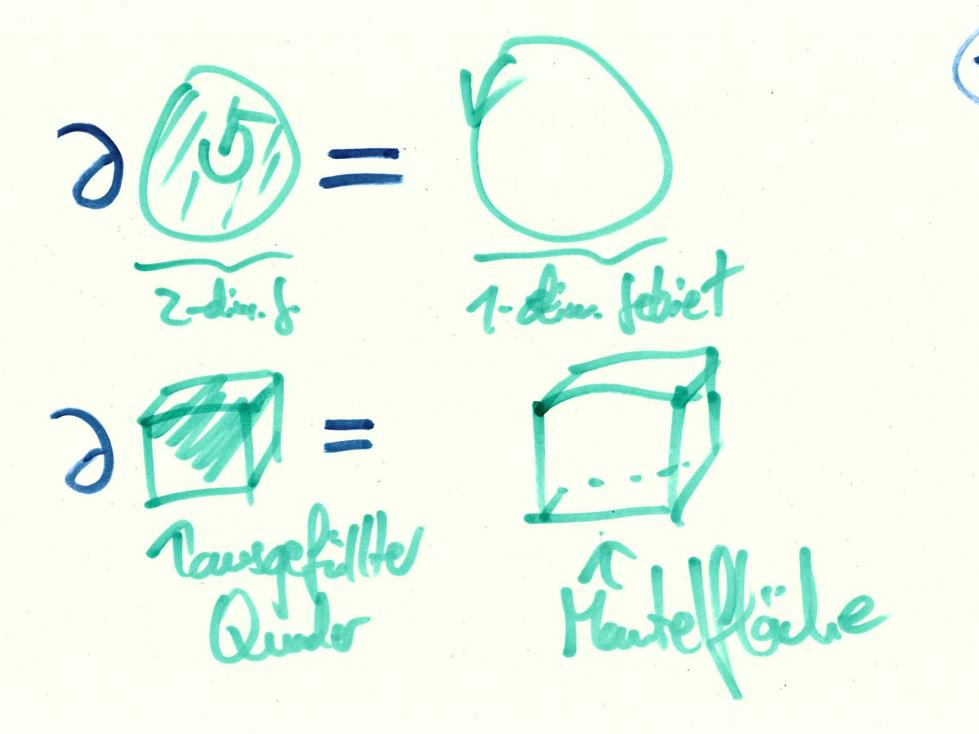
Box. Exercise O-Forman.

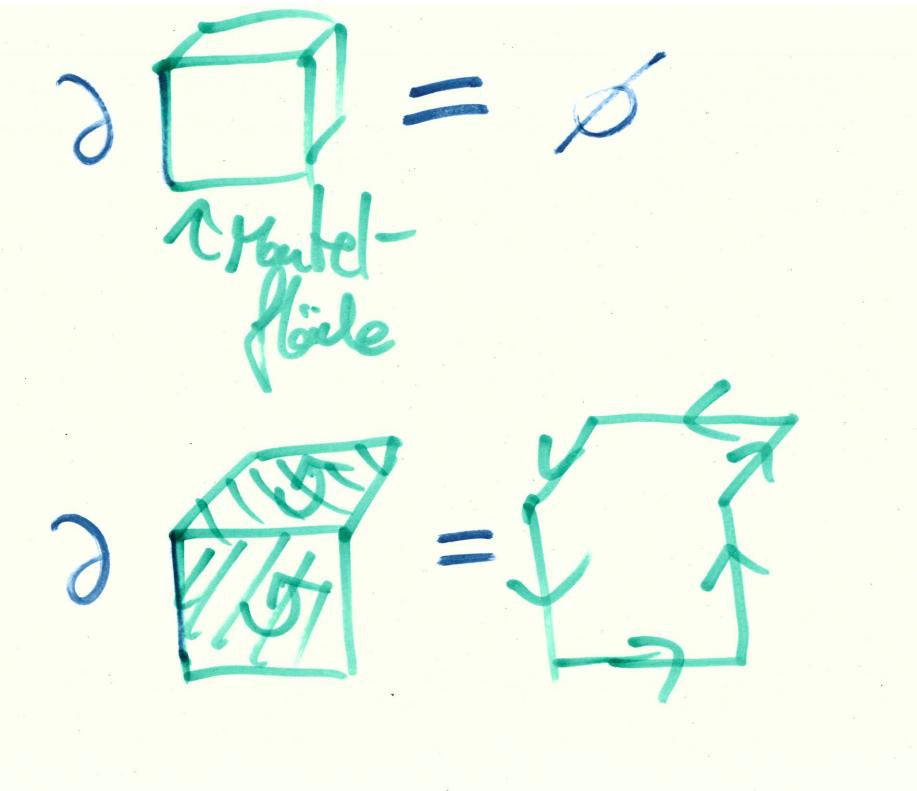
Sign  $\sqrt{x}$  = 2. 1:1/4-1

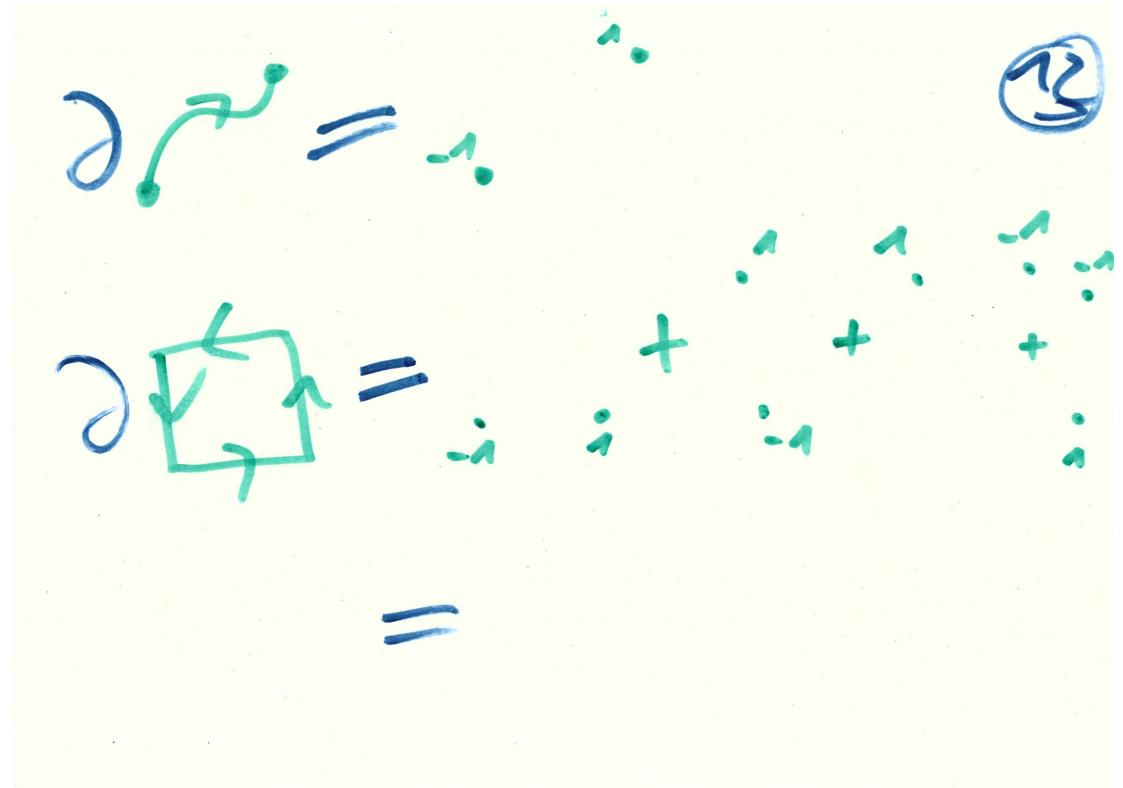
dx rdy rdz 47.53 eie 3-Formi den husen Gelille, St. Wan 52 wan 52 m-form Sin(x) dx = | Sin(x) dx

+>} sin(x) dx 3.27 Bdx

Sate von Stolles alle lungradions







7 ( ) ( )=

 $d(\omega + \tau) = d\omega : + d\tau :$  $d(\omega x T) = (d\omega) n T + (-1)^n \omega n d T$ were  $\omega$  eine  $\omega$ -Form ist

 $d(d\omega) = 0$ 

By:  $d(x^2) = d(x \cdot x)$ 16  $=d(x \wedge x) = (dx) \wedge x + x \wedge dx$  $= x dx + k dx = \underbrace{2x}_{x} dx$ d(21x) = 1 (x) ax

By 
$$d(x^3) = d(x^2 \wedge x)$$

$$= d(x^2) \wedge x + x^2 \wedge dx$$

$$= 2x dx$$

$$= 2x^2 dx + x^2 dx = 3x^2 dx$$

By:  $d(e^x) = e^x dx$ 

 $d(-\cos(x)) = \sin(x) dx$ 

54'(u)dx = f(u) - f(a)HD:  $\int_{a}^{3} 3x^{2} dx = 7^{3} - 1^{3}$ Bsa: Signal = 3(4)-96 Stoles Snyt: d(2(x))