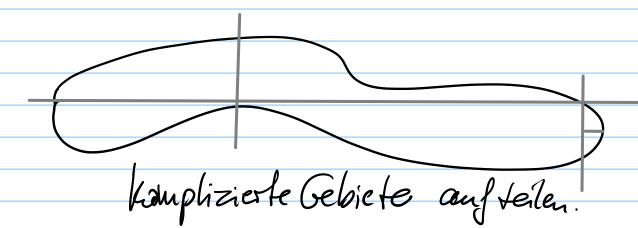
Map 1, p, 14  $Vsp.: \int_{1}^{1} (x) = \frac{X}{2} + 4$ - 2x2+1 a,b ans  $f_{\lambda}(x) = f_{\lambda}(x)$  $\frac{X}{2} + 4 = \frac{1}{2} x^2 + 1$  $X + 8 = X^2 + 2$  $0 = x^2 - x - 6$ =(x-p)(x-q)= X2-(P+9)X + P9 P.9=-6 => P=3 9=-2 =(X-3)(X+2)

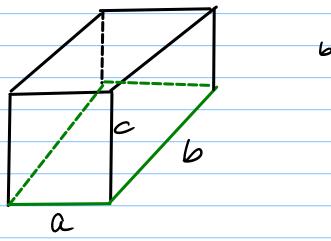
$$\Rightarrow b = X_2 = 3 \quad \forall \quad Q = X_1 = -2$$

$$\begin{aligned} & \text{lap 1, p. M (Tortscteg.)} \\ & > \int_{-2}^{3} \underbrace{\frac{2}{14} + - \left(\frac{1}{2}x^{2} + 1\right) dx} \\ & = \int_{-2}^{3} - \frac{1}{2}x^{2} + \frac{2}{2} + 3 dx \\ & = \left[ -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2} \underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \right]_{-2}^{3} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2} \underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2} \underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2} \underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2} \underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{2}x^{2} + 3x}}_{-2} \\ & = -\frac{1}{2} \underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{3}x^{3} + 3x}}_{-2} \\ & = -\frac{1}{2}\underbrace{\frac{1}{3}x^{3} + \frac{1}{2}\underbrace{\frac{1}{3}x^{3} + 3x}}_{-2} \\ & = -\frac{1}{2}\underbrace$$

$$= -\frac{43}{12} + 14 \frac{12}{12} = \frac{168 - 43}{12} = \frac{125}{12}$$



hap 1 p. 15

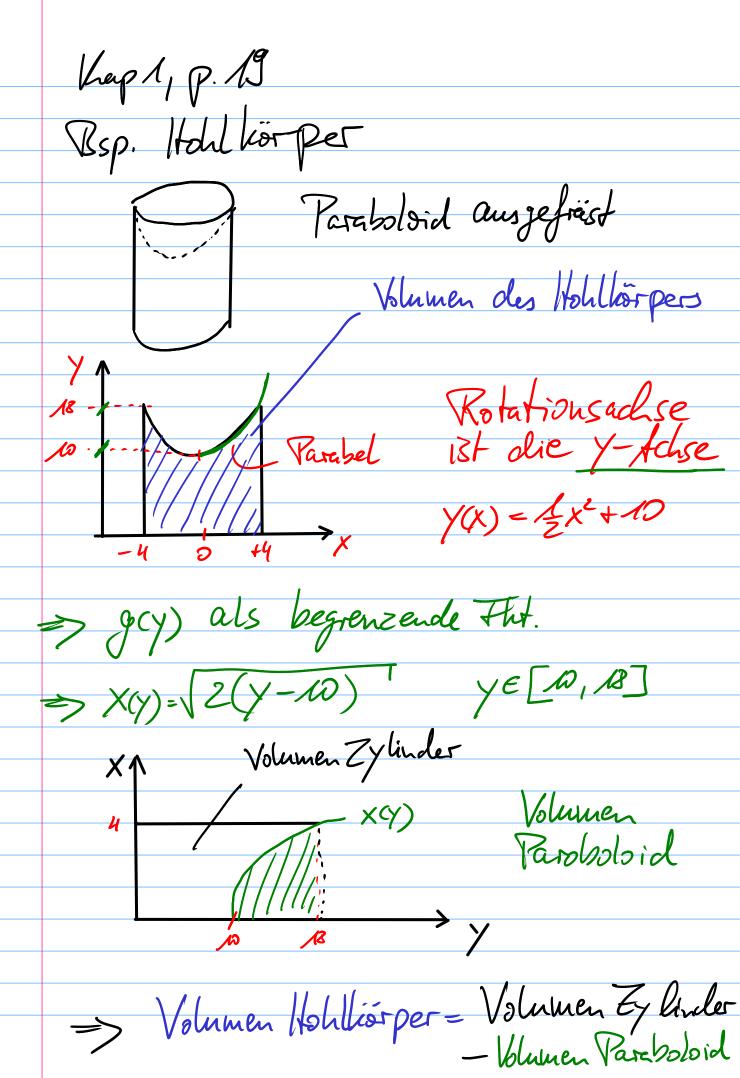


Volumen: 
$$V = A \cdot h$$

$$\int_{0}^{\infty} A \, dx = (a \cdot b) \cdot C$$

hapl, p.19 X2+ (X) = T2 f(x) = /2- x2 Volumen des X= 7-h Rugelassch mts

der Diche h => ? V= W ( ( \( \( \T^2 - \( X^2 \) \)^2 dx  $= \pi \int_{-1}^{2} + x^{2} dx = \pi \int_{-1}^{2} + x^{2} \int_{-1}^{2} x^{3} \int_{-1}^{2} + h$ = T [ +3 = 3+3 - (+24-4) - 3(+43)] = T = -3-+2h - 3(+3-3+2h+3+h-h3) = \[ \frac{2}{3} - \frac{1}{3} + \frac{1}{2} \h + \frac{1}{3} - \frac{2}{3} \h + \frac{1}{3} - \frac{1}{3} \h = W Th2-3h3] Was 18t wit h=2+ (Vollkugels) V=N[+(21)2-3(25)3]=N[34+3-8+3]=45+3



Vap 1, p. 19 (Fortsetag.) an ale Einl d. Achsen Vzyl = TO (4)2.18 cm3 = 904,78 cm3 Vparaboloid = T (X(Y)) dy  $=\pi\int_{0}^{\pi}\left(\sqrt{2(y-\omega)}\right)^{2}dy=\pi\int_{0}^{\pi}2y-20\,dy$  $= \pi \left[ y^{2} - 20y \right]_{\Omega}^{8} = \pi \left( 18^{2} - 20 \right) R - \left( 10^{2} - 200 \right)$ 

 $\approx$  201,06 cm<sup>3</sup>

= 703,72 cm³ VHL = Vzyl - VPereb. =