## KGÜ 8.5

432

ii) 
$$\chi_{(1)}$$
  $\chi_{(2)}$   $\chi_{(3)}$   $\chi_{(4)}$   $\chi_{(5)}$   $\chi_{(6)}$   $\chi_{(6)}$   $\chi_{(4)}$   $\chi_{(10)}$   $\chi_{$ 

$$\Delta M \Delta_{x}^{2} = \frac{1}{m} \sum_{i=1}^{m} (\lambda_{i} - \bar{x}_{i})^{2} = \frac{1}{m} \sum_{i=1}^{m} \chi_{i}^{2} - (\bar{x})^{2} =$$

$$= \frac{1400}{12} - 110;25 = \frac{1400}{12} - \frac{441}{12} = \frac{1400 - 133}{12} = \frac{77}{12}$$

$$V)$$
  $\Delta_{x} = \sqrt{\Delta_{x}^{2}} = \sqrt{\frac{31}{12}}$ 

$$\Delta_{y}^{2} = Var(y) = Var(2x-1) = Var(2x) = 2^{2} Var(x) = 4.5 = \frac{77}{12} = \frac{73}{3}$$

a) Yu) X(2) X(3) X(4) X(5) X(6) X(3) X(8) X(9) X(10) 0.3 0.5 0.5 0.8 40 12 1.5 1.5 0.8 1.5  $X_{\{n\}}$ X(12)  $\chi^{(u)}$   $\chi^{(i2)}$   $\chi^{(p)}$ XCIB) XIA K (13) XMO) X(20) 1.5 1.9 2.4 2.4 1.8 3.5 3.5 3.5 4.0 4.1. M=20 4.0 4.1 3.5 Worte 0.5 10. 1.5 1.9 2.4. 2.8 0.3 8.0 1.2 0.05 0.05 4 005 1 1 A abs. H. 2 2 A 0.1 0.05 0.2 0.9 0.95 1 0.05 0.75 0.05 nd H. 1,005 0.4 0-1 0.7 0.6 0.55 0.35 0.25 0.3 Kum.rd H. 0.05 0.49 0.05, 0.36x CO.5 0.15, 0.5 £ x co.8 0.25, 0.8 6 x CA 0,8 0.3, 16XC1.2 1.26× C1.5 0.35, 0.55 1.56 X L 1.9 1.9 5 XC2.4 0.6, 0.7, 2.46 X C2.8 2.85 X (3.5) 0.75,

0.9, 3.5 £ XC4

1 4.1 5 X DOT

0.95, 44 XC 4.1

c) 
$$\leq 1$$
  
 $\hat{\tau}_{20}(1) = 0.3$ 

reloo

fac(1) = 
$$\frac{1}{20}$$
  $\frac{20}{11}$   $\frac{1}{11}$   $\frac{1}{12}$   $\frac{1}{12}$ 

1.2 winchem 1.2 and 2.4:

$$\hat{f}(2.4) - \hat{f}(1.2) = 0.7 - 0.35 = 0.35$$

a) 
$$K_1 = [0.3, 0.8]$$
;  $K_3 = (1.3, 1.9]$ ;  $K_5 = (3.014.1)$   
 $K_2 = (0.8, 1.3)$ ;  $K_4 = (1.9, 3.0)$ ;

i	Λ	2	3	4	5
<b>Wasse</b> Ki	[0.3,0.8]	(08, 1.3]	(1.3,19)	(1.9,3.0]	(3.014.1)
abs H.	5	٧	,	3	5
nel H.	0.25	0.1	0.25	0.15	0.25
bi	0.5	0.5	0.6	1.1	1.1
hi	0.5	0.2.	0.42	0.17	0.23

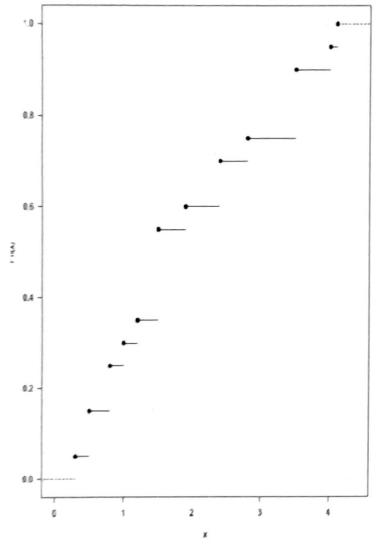
434 1.0, 2.5, 2.0, 3.5, 1.0

$$\times min = \times_{(4)} = 1$$
  
 $\times mox = \times_{(5)} = 3.5$ 

writeres Q:  $m \cdot p = 5.0.25 = 1.25 \text{g/H} = 1$   $X_{0.25} = \frac{1}{2} (Lm \cdot p) + 1 = 1 = 1$ oberes Q:  $m \cdot p = 5.0.75 = 3.75 \text{g/H} = 1$   $X_{0.75} = \frac{1}{2} (Lm \cdot p) + 1 = 1 = 1 = 1$ 

$$f_5(x) = \begin{cases} 0, & x < 1 \\ 215, & 1 \le x < 2 \end{cases}$$
 $315, & 2 \le x < 2.5$ 
 $415, & 2.5 \le x < 3.5$ 
 $1, & 3.5 \le x$ 





## Histogramm

