Aufgabe 1.1. .2 = 0.5 0.100 · 2° = 0,625 0.101 . 20 = 0.75 0,110 O. 111 . 20 = 0,875 . 2 1 = 1 0.100 . 2 = 1,25 0. 101 . 21 = 1,5 0.110 ·21=1,75 0.111 b) X, = 0. 1111-2 11 X2 = 0,1101.2 = 10,5 +0,25 +0,125 +0,0625 | ·23 = 7,5 x2 = (2 + 2 + 16) .2 -3 = 0,10 2.3  $618 = \frac{1}{2}$  | 18001 = 8001 = 8001= S(x1 - S(x)+ Sx . 28 128(x) = (((x E1 -.. ) = E (x) + O(E2) 1 g(x,y) = g(x+dx, 1 y+d.y) - g(x,y) => | 4 8(x14) | = E. (KM) + E | (C22) + O (E7)

this f(x,y)= x y 70 Kin = 38 · Sixiy) =1 Immer gut handitioniest 1112 = 38 / =-1 => 1 \frac{15}{5} /= /\frac{7}{12} \text{2ij } \text{E} / \text{E} \text{-11 \text{E} \cdot 1 + 0 (\text{E}^2) = 7840(871 21 f(x1y) = x y (Cu = 38 x = 1/ (C12 = 34 x = 1/lncx) 1= 18 1 × E . 11(m) + E 1 (m) 1 + O (E? 1 = 141E+ (ylnx1E+OCE2) Ferledampfung für lylx1 & e x < e x Schlecht Cont.: 14/221 x > e in x < e x y-7 = 1 (1= 3x · x2= = = ) | 48 | = = E + O(E?