Max Parize: f(x,y) = 16 - 192+42). 4.1.7 0 surject to: 22-y+4=0. 4.4.7 9 L(M,y, N) = 16-(91742)+2(2x-4+4) 9 Maximize our Xby: D 2L = -2α+2λ =0 ⇒ [λ= 2] 0 300 0 @ dL = -2y -2 = 0 => | y = -2/2 9 P 20 . 21 = 0 substituting back in L => awal punction. There are not a see but to L(A) = 16 - (2+ x2) + 2 (2x+2+4) $= \frac{16 - 5\lambda^2}{4} + \frac{5\lambda^2}{24} + 4\lambda = \frac{16 + 5\lambda^2}{4} + 4\lambda$ minimize the dual function L(A) 9 = 9 $\sqrt{\frac{3^2 - 8/5}{d\lambda^2}}, \frac{d^2L}{d\lambda^2} = \frac{5}{2} > 0 (nanna) - \frac{5}{2}$ 2 2 southen: = 9 n=2=(8/5), y=-2/2=(4/5) 2 D veryscatten: 14 25 37 . 35 .24 .26 (X1 X) = 3 2x-y+4=0 \$ 2(-8/5)-4/5+4=0~ 2 16-(22+42) = 16-(64/25+16/26)=16-80/26=64/5=(12.8) 2 3 3 3 0

er.



