Solution Exercise 18.1 v(4,2)= cus(x-4) { (usd (2+2 sin4) - as(d-4)) tan(d-4) - 2 cus 4 cusd =0 V= sec(d-4) = u, u = cos v, v = (d-4) 24 = 24 20 24 = -1 to (-sun o) (-1)  $= -\frac{1}{\cos(d-4)} \sin(d-4) = -\frac{1}{\cos(d-4)} \tan(d-4)$  $\alpha_1 = \frac{1}{\cos(d+2\sin\theta)} - \frac{2}{\cos(d-4)}$ 201 = asd 2 cos 4 + 2 (as(d-4) tan(d-4)) from DK ar = tan(d-4) Dar Dotum(u) Du = - tos (d-4) as = R ws 4 cosd das = - 2 sen 4 asx V2 = a, a2 - a3 Dy = Du an + a dan - Das

 $\frac{\partial V}{\partial Q} = \frac{\partial V_1}{\partial Q} \cdot V_2 + V_1 \frac{\partial V_2}{\partial Q}$