Exercises: 1 Compute fx & fy ~ f (x,y) = 1/x+y b. f (x,y) = In (x2 + xy) c. f(x,y) = sinx · cosy 2 15,3 #10 ir fextbook 3) Fir f(xy) = 3x2y + 4x3y2-7xy5, (x (1,2) 9 Fr g(x14) = xy / (x-4) 1xy (1,0) (3) Challerge, but a good we to try. $f(x,y,u,v) = \frac{\chi^2 + e^{y} v}{3y^2 + \ln(2+u^2)}$ Show turxyur = 0 Hint: Chause a different order 6 Compule the gradient $a \cdot f(x,y) = \cos(x^2 + y)$

b. h (x,4,2) = xy 2-3

