NOME: FOURE ANCHONDO DO CUNIE MENDOS no: 2252940 LISTA PONIVACOO IMPUICITA (1) a) x3+y3=5 $d(x^3+y^3) = d(5)$ $\frac{d(x^3) + d(y^3) = 0}{dx}$ 3x2 + 3y2 dy = 0 $\frac{dy}{dx} = -3x^2 \cdot dy = -x$ Qr) xy2+2x3 = x - 2y $\frac{d(xy^2) + 2d(x^3) = dx - 2dy}{dx}$ $\frac{dx}{dx}, y^2 + x \cdot \frac{d(y^2)}{dx} + 2 \frac{d(x^3)}{dx} = 1 - 2 \frac{dy}{dx}$ y2 + x. 2y. dy + 6x2 = 1 - 2dy

C) X2y2 + X reny = 0 d(x2 y2) + d(x rery) = d(0) d(x2), y2 + x2. d(y2) + (dx sery + x. d(serg))= x2. 2y dy + 1. reny + x. cony. dy = 0 x y . dx + reny + x . cay dy = 0 =y. dy + x carpdy = - (2xy + reny) 2x2y + x (ory) = - (2xy2+ reny) dy = - (2xy2 + reng)

$$\frac{d(x'^2 + y'^2)}{dx} = \frac{da'^2}{dx}$$

$$\frac{d(x''z) + d(y'b) = 0}{dx}$$

$$\frac{1}{2} x^{-1/2} + \frac{1}{2} \cdot y^{1/2} \cdot dy = 0$$

$$\frac{1}{2\sqrt{x}} + \frac{1}{2\sqrt{y}} \cdot \frac{1}{\sqrt{y}} = 0$$

$$\frac{dy}{dx} = -2\sqrt{y}$$

e) a cos (x+y) = l a. d(costing) = d(a) a. 2000(x+y), d(cos(x+y)) = 2a cos(x+y).[-ren(x+y),d(x+y)] -2a cos(x+y), ren(x+y) 1 + dy d(e") = dx 2 dy Co. dy = 1 + dy