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3) Let $f(x,y) = \int (x^2 + y^2) dx \frac{1}{x^2 + y^2}$ if $(x,y) \neq (0,0)$ 0 if (x,y) = (0,0)4) Suffore of its a function with fa (n, y) = fy (n, y) = 0 for all Cr, ys. Then show that flays = constant. $f(a,y) = x^2y \text{ for } (a,y) \neq (0,0) \text{ and } f(0,0) = 0. \text{ Show}$

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