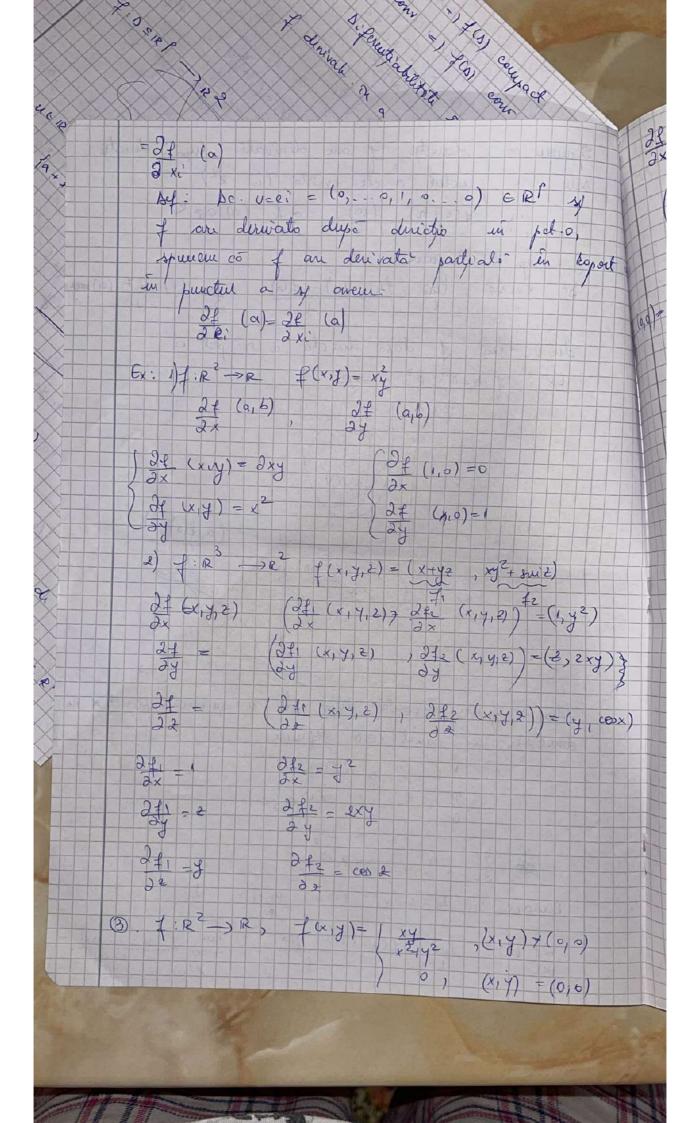
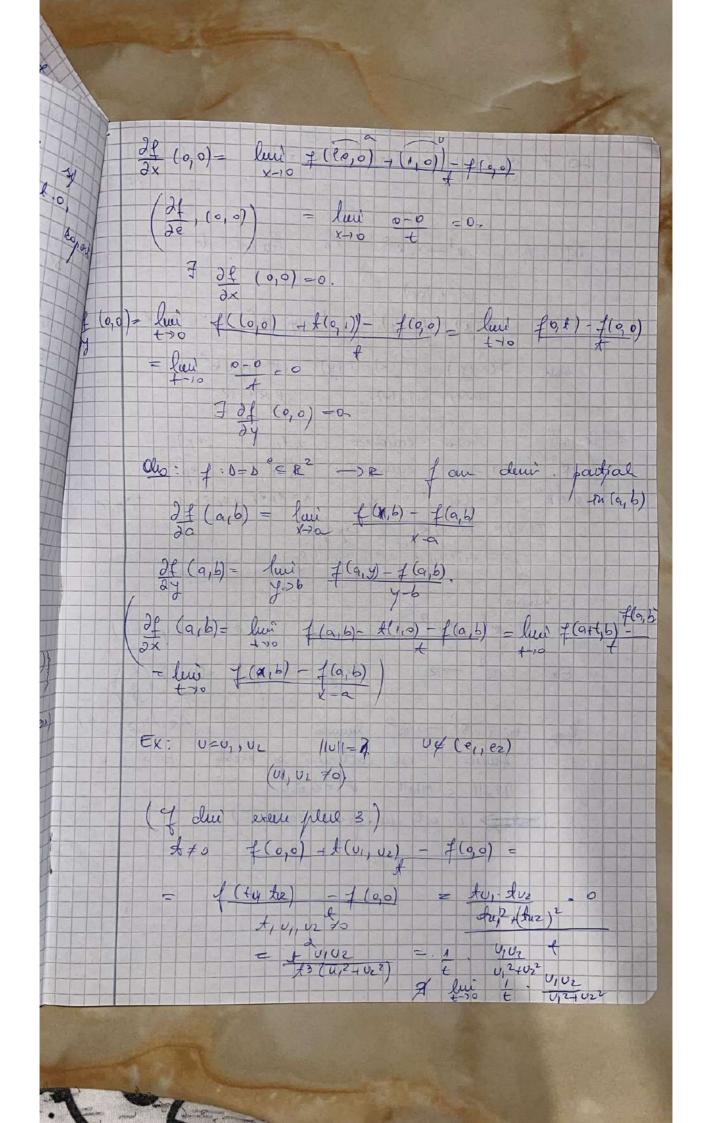


Spureu co functio of an divisto dujo dirictio lui 4(e+tro) - f(a) = 2 f (a) ep 2 J - op de denevare De existo lui f(a+tu) - f(a) = 24 (v), 27 (a) = 20 20 30. derive lu of dupo der ofa u in pot a Ex f. b = 0° = R2 -> R (a, f(a),d) Olo: Do fare derivata dupo dir u mource built x ru domentia a punct xeb defunise > 27(x) du maz de de s Primarco . L.v = ei = (0, 9. 0, 1, 0. 0) 2f (a) = lui f(a+tei)-f(a) lui f(a1, ap)





Dici \$ 24 (0,0) ( pt . 0 \$ e1, e2) u= ( U1, U2), U1, U2 +0by: Al Tire -> R2 sn. luiano de T (xx+ py)= - 2T(g) + pT(y) + xye et + x, per Some T(x-y) = T(x)+T(y),  $t \times y \in \mathbb{R}^p$   $T(x \times y) = x T(x)$ ,  $t \times C = \mathbb{R}^p$ Pe 12 P - , boro canonico 4 e1, ..., 2017

R9 - 7 boro canonico 4 e1, ..., 2017

x 6 P , X = (x, , ... xp) x = x1 e1 + x2 e2 + ... + xp ep 7(x) - T(x, e, xpep) = = x11(e) + . . . . . xpT(ep) 7 limaro  $7: \mathbb{R}^f \to \mathbb{R}^2 \qquad \qquad \Rightarrow A \in \mathcal{U}, \mathfrak{I} \cdot \mathfrak{p} \quad (\mathbb{R})$ Ex: T: R2 -> R T(x, y) - 2x+y -(2,1) (x) Prop to T. R -> 12 luicons Aclina (R) Alunci 7 este continuo si exesto M>0 a.E 11Tx11 < MIXII. Yxenzf ( action T est sem foren continuo).