Cms 9

1. Defentialitates functiles comme

n, c

Fix $Y: \mathbb{R}^2 \to \mathbb{R}$ s function defermation is $f: \mathbb{R}^2 \to \mathbb{R}$, $f(x,y,z) = Y(xyz, x^2 + y^2 + z^2, x^2 + yz)$ Availate of the defermination of determination is $\frac{\partial f}{\partial x}$, $\frac{\partial f}{\partial y}$, $\frac{\partial f}{\partial z}$

- 2. Desivate postiale de ordin superior
- 3. Lema lui Schwarz
- 4. D'Juntiale porhale de ordin superior

r,

Fix $f: \mathbb{R}^2 \to \mathbb{R}$, $f(x,y) = x^2 + xy + y^2$

- a) Det derivatele partiale de ordin 2 ale lui f
 - 6) Det df(1,2) n d2f(1,2)
 - e) Det polimonul lui Jaylor al lui f in (1,2) (i.e. T_2 (x,y))

- 5. Puncte de estren boal
- 6. Jevrema lui Fermat