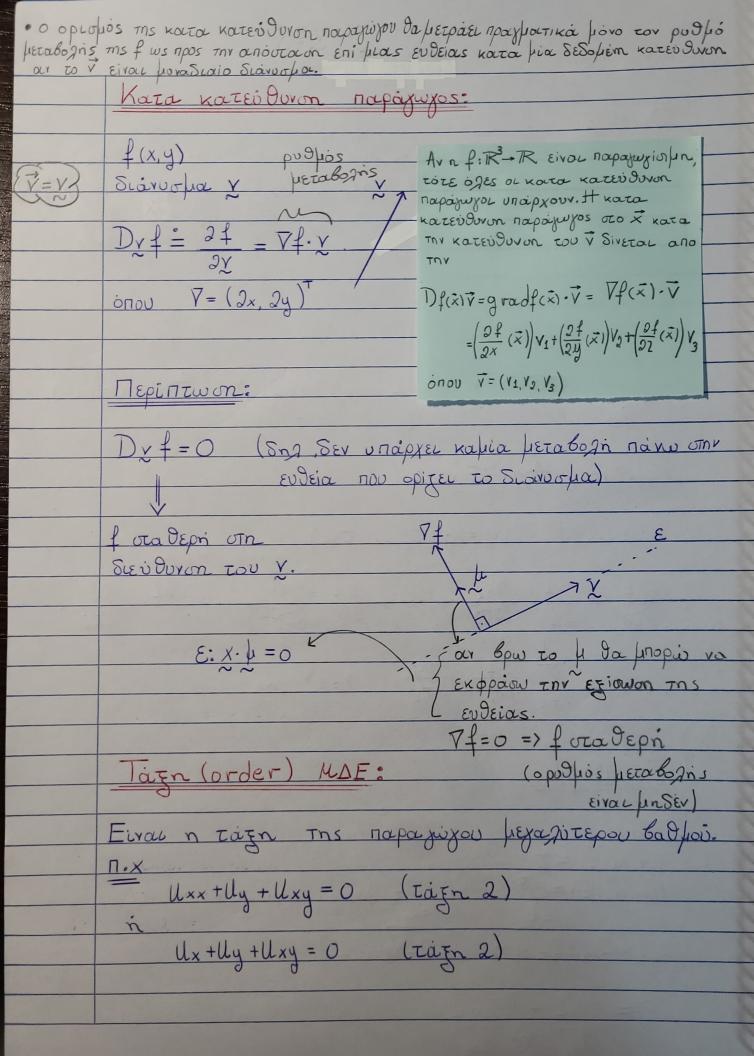
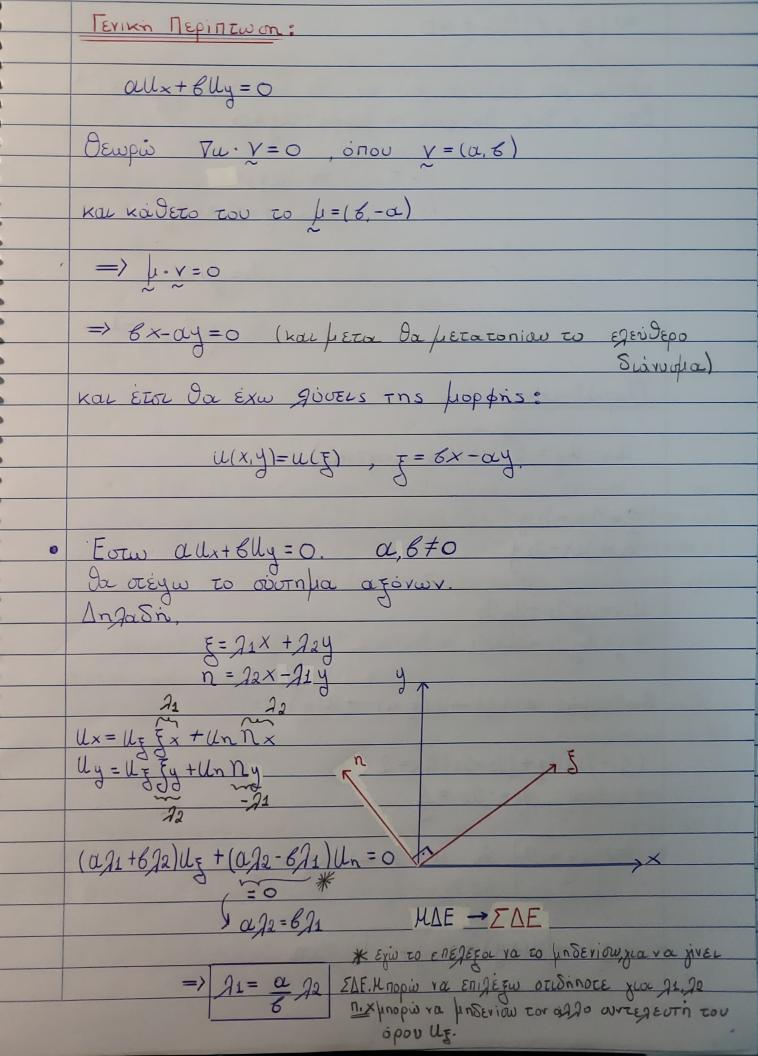
06/02/2023
Opropios:  Mra efiction $MAE$ eivar fila efiction this popopis: $F(X_1, X_2, X_3,, X_d, U(X_1,, X_d), 2U 2U 2U 2U 2U)=0$ avefaithtes $U_{X_1}$ $U_{X_2}$ $U_{X_3}$ $U_{X_4}$ $U_{X_5}$ $U_{X_6}$ $U_{X_7}$ $U_{X_8}$ $U_{X_8$
$\frac{2f}{2x_{3}} \stackrel{\cdot}{n} fx_{3} \stackrel{\cdot}{n} 2x_{3}f (1008ivafia) \stackrel{\cdot}{=} (0plofis)$
Karoras Aguoisas:
$ \frac{1}{2} \left( \frac{1}{2} $
$= \frac{\int \frac{2 f}{\partial x_j} \cdot \frac{\partial x_j}{\partial \tau_i}}{\int \frac{\partial x_j}{\partial \tau_i}},  i=1,,m$
Παράδειχμα:
$ \frac{f(x_1, x_2)}{X_1 - X_1(\tau)} = T $ $ \frac{f(x_1, x_2)}{X_1 - X_1(\tau)} = C $
$= 2x_1 f + x_2 2x_2 f$ $+ x_1 e^{t} f x_2$



3	Γραμμικότητα:
	Μια ΜΛΕ είναι χραμμική είαν είναι χραμμική απεικόνιση ως προς τις μερικές παραχώγους.
	$\frac{\Pi.X}{=}                                   $
	· Ux+Uy+x2Ux = O (xpappinkin)
	· Ux+Uxly=0 (fin xpafifiikin) · Ux+Ully=0 (fin xpafifiikin)
6	· Ux + (Uy)2 = 0 (fin xpafifikin)
B	IXESON Fpaffinies (Quosi-Linear):
	Un xpatifishin  Or peziotns toigns napajuyor, va eivar xpatifises.  xpatifishin n pezojotepn tagews napajuyos.  T.x Ullx + Uyy = O  proxpatifishin
E Fio wo	TapaSeixtra: xwpis onopiakės onosikės o
	Noon:



$$\Rightarrow \left(\frac{\alpha^{2}+\delta}{\beta}\right) 22 \, \text{ll}_{\xi} = 0$$
onote from Englorin yie to  $\beta$  sivar:  $\beta z = \left(\frac{\alpha^{2}+\delta}{\beta}\right)^{-1}$ 
Etter in S. & the execution from the popular  $\beta$  is the execution from the popular  $\beta$  is the execution of the execution  $\beta$  is the execution  $\beta$  is the execution of the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$  in the execution  $\beta$  in the execution  $\beta$  is the execution  $\beta$