		algorithm, conv	ergence 10/03
What is	NUMERICAL	ANALYSIS? approximation c	f math mobilems
		estimate of er	ror
So there ou	ne 3 propertie	s:approximation (algor	ithms)
		implementation (comp	outer coole)
		error analysis	
Ecamo	mts of	Functional A	na Quais
VECTOR 3	PACE: (V,	+, ·), IR such that	
· v, w ∈ V	⇒ 2=V+W €	£V . 0.4 V	
· av + Bw 4	€ V	· 0 € V · 1 € IR	
L∈ C°(To	(1) in R		
For n=2	x = (x, xz), y=	=(41,42) ER2 => ==(x1+41, x	$(4+45)$ $\alpha x = (\alpha x_1, \alpha x_2)$
NORM:	() () () ()	Rot with positivity: IIVI	≥0 (=0 <⇒> v=0)
		·	/
10-norms	= (2 xilp)40 for p∈N	
		because given $v = (1, -2)$	
:	$ 1 ^2 + (-2 ^2)^{\eta_2}$		
(lvll∞ = n	nax [vi] = max	$\{(11, (-2))\} = [2]$	
11f110 =	(Sifi dx)	No IIIII of IIII = max x (0.1)	LEV
		iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	
11 #11 # =	filti dx	9 1 X	
M		16 ±	
NIE IKIC S	8: VXV -	· d(v,w)	$= Q(\omega_1 v)$ $= Q(\omega_1 v)$
			4 d(v, 2) + d(2, vo)
		is a metric:	
		ul, for the third: 11x-211	
so it become	nes 11A+B11	= 11 x-y + y - z11 where 1 = 11 A11 + 11 B11	7=x-y, 6=y-2

$$A = h(0,1), (1,0)$$
 $R^2 = \text{Span}(A)$
 $V = \sum_{i=1}^{2} x_i v_i$ $x_i \in A$
 ρ^n Space of polynomials of ordern

For n=2: V=00 + M1X + M2 x2 & p2 => p2= span f1, x, x2]