Question L.					
	11				
	<u>y</u> = g(x)	+ [,		(1)	
where y e	EIR ^{m×I} , C~N(0, 2) 0:	$\mathbb{R}^{n}\longrightarrow\mathbb{R}^{m}.$	a c C ¹	
(it has first		,0110)	10	3 6 0	
			W= I		
The cost	function: J(xe)	= (y- 9(x))	TR (y-912		
			3		
T		,			
The Standart	Gradient descent				
Ž .	- X; _	in all x=20	, ∇	(3)	
		7 2x x=20			
	,	<u> </u>	^ ^	<u> </u>	
let say fligt	_ 2] = Δ x̂	r	G = 29		
J color,	$\frac{\partial J}{\partial x} = \frac{\partial \hat{x}}{\partial x}$,	$G_i = \frac{\partial g}{\partial x}$	x= γ ;	
			_		
Pseudo code th	en,	- Con			
given: 20	, 9, J , G,	Niferation,	Ngrid -		
Aubrik .	x; [also the hisbr	41 ~ it7			
7 =	[0,	inear space with	Ngril denant		
for i =	0; i < Niferation	; i ++			
, ^	atch a n-	1 (, , , , , , , ,	\ \		
Δx_{\uparrow}	$= G^{\dagger}(\widehat{x}_{i}) R^{\dagger}$	(y- gcx;))		
Y min	= 1				
Imin	= 1 (x;	+ Ymin Dx	;)		
0.		,			
· · · · · · · · · · · · · · · · · · ·	j=Ngml-1; Yprop = 7 [j] Jprop = J (j > 0 ; j -	-		
	Jprop = J (x; + Y prop.	<u>√</u> 2€;)		
			,		
	if Jmin >	J prop :			
1	I				





