	Homework 4 Yuankal U	Nand
Question 1:	Question 1: a) A=[well xi coeff xixi]=[1]	
a) A= (coeffx,x, co-exfx;)=[5)
6	$\frac{\partial X}{\partial x} = \begin{pmatrix} \frac{\partial X}{\partial x} \\ \frac{\partial X}{\partial x} \end{pmatrix} = \begin{pmatrix} \frac{\partial X}{\partial x} + \frac{\partial X}{\partial x} \\ \frac{\partial X}{\partial x} + \frac{\partial X}{\partial x} \end{pmatrix}$	
	$\frac{\partial}{\partial x} = \frac{\partial}{\partial x} \left(\frac{x}{\partial x} \right) = \frac{\partial}{\partial x} \left(\frac{x}{\partial x} \right)$	$= \langle (A \times X) \rangle = \langle (A \times X)^{T} \rangle + \langle (A \times X)^{T} \rangle + \langle (A \times X)^{T} \rangle = \langle (A \times X)^{T} \rangle + \langle (A \times X)^{T$
	- AXAX - XAdx	. A is symmetric
	52	~ A+A7=2A
(2)		$(\frac{dy}{dx} = 2\sqrt{3})$
Question?	(c) 3x, = 2x, +2x, -6 = 0	(γ,= 2
	$\frac{3x^{2}}{3\lambda} = 3x^{4} + 10x^{5} - 14 = 0$	(X'=1)
	b) 1 = x1 [1] x + [-14] x + 13	
	1 - 1 - 2 - 2 - 2 - 2	
	# 2 1Ax+ B = [22] x+	$-\left(-\frac{1}{4} \right) = 0$
	X > [1]	
Questions	$\frac{1}{4}\left(\frac{\partial f}{\partial x}\right) = \begin{pmatrix} -4x \\ -6y \end{pmatrix} \text{ when } x=4, y=\beta$	(-(6,-34)
	1 27 1-64 /	
	D F(x,y,z) = +2x2+3y2+2-300	
	(SF(x,x)) (XX)	It should decrease the depth
	36(x'N'S) = 6 \ - (2)	(-16, -34, -1)
	7 37	