		1013
2)	Eigenvalue of M	
Part 2	Mx = Ax	
	CM-XI)x=0	
	M= [1,-42]	
	M= [-4 2] 2 -2 -2	
	[1-X-4 2]	
	= \[-4 \ 1-\lambda -2 \] = \[\begin{array}{c cccc} 2 & -2 & -2-\lambda \\ 1-\lambda & -2 \\ \ 2 & \end{array} \]	
	5 -5 -5-1	
	1-y -2	1 - 1 - 1 - 1
	= (1-1) -5/25-7 4 -3/25-7	
	= (1-1)(1, +1-1) + 4(1)	+12) + 2(2),+6)
	= - 2+72-6 + 162+48+	4/2+12
	F2+ 1F5+ [1-	
	- 13 + 27/ +54 = 0	
	-(x+3)2(x-6)=0	
	A = [-3,6]	

2) Pan 2 Eigenvectors of Matrix M Solve M-XI Eigen value of -3 $\begin{bmatrix} 1 - 42 \\ 2 \\ 1 - 2 \end{bmatrix} - (-3) \begin{bmatrix} 100 \\ 0 & 10 \end{bmatrix}$ -41-2 RZ = 2R3 + RZ 4-42-R3 4 - ZR1 + R3 0 5 0 0 0 0 RI 6 JRI $= \begin{bmatrix} 1 & -1 & 1 & 1 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 1 & -1 & 1 & 1 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$ X = y - 22

Part3		10+2
	A= \[\times_{11} \times_{12} \times_{13} \] \[\times_{21} \times_{22} \times_{23} \] \[\times_{31} \times_{32} \times_{33} \]	
	F(A) = x2 (x2 (x2 x23 + x11x12x13	+ x (x 11 x x 23 x 35 x 51
	~ 12×11×22×23	
	D x 11 x 2 x 11 x 2 x 23	JAWA 18 31 - X 33 35 21
	N _O .	
	0 + 0 + 0 + 0 + 0 + 0	
	9x33 9x33 232 x32 x32 x32 x32 x32 x32 x32 x32	9×33 H 425 2. + 3th WESTER!
	$= \begin{bmatrix} -2 \times_{33} \times_{31} \times_{11} \\ -2 \times_{32} \times_{21} \end{bmatrix} \times_{32} \times_{32} \times_{32} \times_{32} \times_{33} $	
	= (- x212	

Parts	2-7-5
	TT+ = /2x, x v 1 1 2 1
	Heisian
	g(x,y,2) = x3y + yzsin(x) + xy225
	First derivative
	7 - 2 3 4
	$\frac{x}{2} = 3x^{2} \int_{-1}^{1} 43\cos(x) + 6x^{2} \int_{-1}^{2}$
	= y (3x2+2cos(x)+525)
	2
	0 2 5
	3 = x3 + 2 sin (x) + 20x2 5
	0 + ysin(x) , 52 xy
	= ysin(x) + 52 xy2
	Second delication 2 = 3x3y + 2y cos(r) + y325
	2x, 3 + 5 A coz(x) + A 35 2
	= (6xy - 2ysin(x))
	= (3x2+ 2005CK) + 3y2 25
	2 5 5 2 4 3 3

