	DETERMINATYTLAR
$A = \begin{bmatrix} a_{ij} \end{bmatrix} a_{ij}$ $ A = a_{ij} $	* Kare matrislerin aleterminantlar i tanimhatic
A=[a]	a
A= ab => IAL	= ad-bc (A = a b)
$ A = a_{11} a_{12} a_{13} $ $ a_{21} a_{22} a_{23} $ $ a_{31} a_{32} a_{33} $	$ A = a_{11} \begin{vmatrix} a_{22} & a_{23} \\ a_{31} & a_{32} \end{vmatrix} = a_{12} \begin{vmatrix} a_{21} & a_{23} \\ a_{31} & a_{33} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{31} & a_{32} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{31} & a_{32} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{33} \\ a_{22} & a_{33} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{12} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{21} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} & a_{23} \\ a_{23} & a_{23} \end{vmatrix} = a_{13} \begin{vmatrix} a_{21} &$
	9131917154
parining bulendugy satir Ys	estibessade ber matris olsun. A matrisiain aig ele- e suttoun aikarilmasigla elde editen (n-1)×(n-1) determinant no aig elemanian "Minara" demo
$A_{ij} = (-1)^{i+j} $	ig dégérine ais elemention es garpan veja ka-
A= a2 - a2 - a2 -	220
Mis = 1 a(1-1)2 - a(1-1)(5)	-1) a(-1)(3+1) a(1-1) a(1-1) a(1-1)
an anz-anis-1)	$a_{n}(q+1) - q_{n} $ $a_{n}(q-1) \times (q-1)$
Örneks -2 2 5	1, 1 2 - (-2) 3 2 + 0 3 1 2 -1 2 2
	= 1 (-1-4) +2 (-3-4) = -19
terminenti	üzere nxn mertebesindets A tare notissing de
	2;1A;1+a;2A;2++anAin=a;3A;3+a2;3++an
i=1,2,	, n = f= 1, 2,+, 1

					477			<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	el	L'E	1es																			
++	Teo	cec	n=		IA	1=	= 14	17	0	lic			-					_												
	Teo	rea	, =	é	1	B)	na) (5	\$00	50	1	ner	he	278	1 4	25 6	.5	2410	- (Υt	73	2	ı Ł	20)	ele	Me	ماه	c 1
	+	+	-	10	Mi	4	10	4	ise	-	H	1=	0	, 0	3/10															
		1		ici		4,	21.	ن ا	Fee	N .	ve-	ner 18	CS.	8	G.S.	20	s	101	CI CS	C V	eje	IA	را را	رم لاغ	sea	a c	101	150	ne	Ale
++		-	-	Ge	P	100	ne	-	25	145	1	-	-		-	-											_		-	
	Teo	121	n Z	6	1	Bro	M	etr	1550	ner	nes	ha	Jac .	S	etre	sal	ege	. 5	ve	10)	9 5	re	2)	se	C (1A	12	0	- C
		-	-	de	teri	min	200	11	de	φ	5,5	pr	4	d	06	154	Cic	<u>.</u>												
				60	11	Sec	50	not	de	er.	ne	th	3-1	\$ 0	ber	S	24.c	1	CX	ege		€ 504	-0	(بـ	Ь	57	2	SŁ	ale	rî.
	-		X	tel	IB	er	ma	1 6	555	-	he	rho	8	1	se c	SC	dict	(ve	10	కం	À-	2		- ‡	0	te	40	PI	lic
11			 	bo,	ko	10	1	S	tie	-al	Ve	Je	É	SCA	-	(ج	- 6	ek	eng	rs	2_	de	ter	2	UST	40	b	de	Ber	?
				_			<u> </u>			-		111 -	-	ko	10															
	HA		arg	1	Ł	A:	L	ka	3-1				-	-2	ann		×g		6										-	
) ka	1				Ł			1 1			Ť											
	+	+			KI	AI	=	1	121		1	1	-		1	12		71	cA!	1 =	K)	IA	1							
								a	01		a	12		201	7															
	-		6	772	-5	1		ļ.,	-			3		A																
	1/2	+ =	3	١	١	=		3	-5	7	2	1		-5	7	=	-	10	+3	S =	<u>-</u> s)								
	-		2	-1	4		-	2	-5	8				-5	8															
	16	1=	2	-5	8					. 0	1									+	3)				4 -	*4				
1	-		3	-5	3		57	1	-5	7		F	35	+4	0:	2 (+ 6	5)			-	1	-			- t		†			
				0	0						1						1								-	-	+			
-	Teo	re	m	2 3	or.	-	ded	ern	nîn.	മ	+1-		ner	ha	-9°	Ь	ec.	S	at	~	()	eja	,	55A	va)	el	en	ian	Q.
	1		01	sko	ak	5.0	101	pat	00	17/0	ede	+ ,	sit	~n	1	ele	em:	20	100	101		е,	110	had	P	201	ar	17/9	4	20
						ļ	-					-					1	.,,			0,	., .								
			Q.	цA	21	+	-	212	A	22	+ .	01	3 F	23	=6	2				-									-	
		-1	2	-1	2	-	+ 2	2	1_	-2	-		1-3	2)	1	2	1	-	-6	+16	4	10	=	2						
++	-		-		4			- 1	2	4	-1-				2	-/	4								-					
		A	21=	-	2	-2	1		Az	2 =	١,	- 2	1		Az	3 =	-1	1	2											
-	-	-			-1	4	1				12	4	.				-1	2	-1	1-										
			-			-																								
	-								-																					
-									-		-												-							

Tec	rec	nz		a	1	an	L	a	16	-1)	0	1+1 =	t b,	ı î	a,	(141)	7		0140	1										-
			- 1	az											az				920	1										
				,		1			. 1			1		K		1			1											
				an	,	an	2 -	- a	(1	+1)	0	175	+ 6-	15	an	(+1)		- 6	317											
		an	9	12 -		air	(2.0	1		an	6	112		a	1/1-	0	a1î	a			- a	.0							
	2	921								+	02	0	122	-	9	110-	1) 4	25	a	1.674	1) -	- a	27							
		200						200		1	1			J. Director	+ 0	1	1		Success.	1			and the same of							
				, -								1																		
Teo	rem	2	IA	31	•	IA	1	131																						
					*																									
Teo	em-		g ~1	~	رام	cu	1	550		A	A	-1.	26	4	A.	I	2	>	IA	11	117	= \	A-1	NA	14		1		nev	c-
							1	4-11	-	1	_	lal-	1	A١	10	/1	m	adr	5.0	L	255	0	1~10	Sı	19	in	011	0101	LVC	,
							- + -			IA		11	•	1	1		4										0			
															t		0								4					
Örne	L.				a	at	Ь	5+6		1	ļ			Ī																
VAC 18	-		IAI=			bt		Ct			de	4	7	امط	Jokel	0130	do	^	9	ores	la.		o k	4	00	0	101	101	e f	
			1					atk			1				2			3	0			3.36663			- 500	1	0			
1 0	at	6	Ы		1					1	9	0	1			a	6	h	T	1	1 0	۹	c		0	Ь	C	1		
1_ 1	-+	+	4	+		0	0.000	1000		2	6	h	0		+		4								1	<u>ر</u>	4			
= \		a	al	,			Cto	17	6		C						a					100	6	`	C	a	V. secv			
			- 1		'	-	GT.		C		L	تر		,	+-1		<u>_</u>		1	7	2		1		-	94	1 2	1		
	+		-					†			1	=	1			-	1	/	1	,		~	1				†			
+ 1 .	+6+		ь					1	١				0	1	1		1 -	20	Ь	_	1	20	P			1	ط-		9-6	1
				د		- /			1	1		-)	1	= 1	,	. 1	0	0			_	/	, .		-	- 6	-	7 4	1
	+6+(- (9+	b+c	4			9	, -1)	- (ath	+ C)	10	-	9 4	-6	-	Co.	15 to	£1_	a-	Ь	1	0-6	-
10	1464		a	91				-	1	1	a	p	=	-	+	-	-	12	1a-	0 6	-6		-			-		-	-	1
++1		,	-					-		١,	-	-	1	1	+-	1.	-	1	,			-	, -	-	-	+	2		-	. 2
	2/2								=	(94	bte		L	c-k) (6-0) -	16	4-6	1)(x -6	ا ا	2		+-	Sa	bc-	93-	63
	11,	e el	leoli	Ł															1											