	MTWTFS DATE: _/_/	
		1
	AT = a c = ad - bc	
	lb dl	
	All-zero Dioparty:	
	If the elements of a now or column	
	ar zero, then determinat is also zero.	
	2.0	
	111 - 0 0 = (0)(1)-(0)(1)	
	1 2 = 0	
	0	
	Reposition Perpenty:	
	are identical do another www or column,	
	then the determinant is seen	
	e-q ;	
	A = 1 2 = (0(2) - (2)(1)	
	1 2 = 0	
•		
	Switching Duperty:	
	If any two was a columns are	PA
	interchanged, the sign of the determinant	
	also changes	
	e.g: (1)(u)-(2)(3)	
**	3 4 2	1.2.4
	Interchanging was and www	
		· 34
	1A1 = 3 4	
	1 2	T.
	= (3)(2) - (4)(1)	247 247
	= +2	

Lealar Multiple Property: If all elements of a row or column of a determinant are multiplied by a non-zero constant, the addressionant gets multiplied by the same constant e-g:-	
of a determinant au multiplied by a non-zero constant, the addressinant gets multiplied by the same constant	
of all elements of a cas or column of a determinant are multiplied by a non-zero constant, the adversionant gets multiplied by the same constant e-g:	
of a determinant an multiplied by a non-zero constant, the addressinant gets multiplied by the same constant	
non-zero constant, the aderminant gets multiplied by the same constant e-g:-	
multiplied by the same constant	<u> </u>
e-g	
1A1 = 1 3 = 4-6 = -2	
124	*
now multiplying was I with 2	
1A1 = 2 6 - 8-12 = -4	
(4) = 2 3 = 3 (
Sum Property:	
a1 + b1 C1 = a1 C1 + b1 C1	
a2+b2 c2 la2 c2 b2 c2	
e-g:-	
1+2 3 = 1 3 + 2 3	
546 7 5 7 6 7	
3 3 = (1)(7) - (3)(5) + (2)(7) - (3)(6)	
(3)(7) - (3)(11) = -8 + (-4)	
21 - 33 = -12	

	M)T)WTFS	-
	another I can as when in the	
	determinant then the resulting determinant	- 1
	is equal to the original.	
	e.g	
	1A1 = 3 4	•
	1 2	•
	= (3)(2) - (4)(1)	
	= (3)(2) - (4)(1)	
	Now multiplying R1 with '2' and adding	
	with Rz	
	IAI'= 3. 4	\bot
	7 10	
	= (3)(10) - (4)(7)	-
/	= 30 - 28	
	= <u>2</u>	

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9.

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