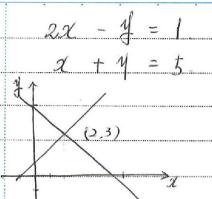
	NO /.
	Chapter J. Hatrix & Gaussian Elimination.
	Introduction: How to solve linear equations with n inknowns?
(1)	Elimination. $x + 2y = 3$ $4x + 5y = 6$ $(4x + 5y = 6) - 4x (x + 2y = 3) \Rightarrow -3y = -6 \Rightarrow y = 2$
(2)	Determinants (Gramer's Rule)
	by elimination method is much better than determinants
1. 2	Geometry of Linear Equations.



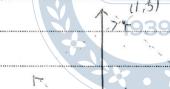
lines = solution is the intersection of two lines

(2) column form.



> to find the combination of column various that produces the right-side vector.

(i) You equations



1:3. 7 7:2

solution is to make the geometric parallelegran of various

@ 1=3 case

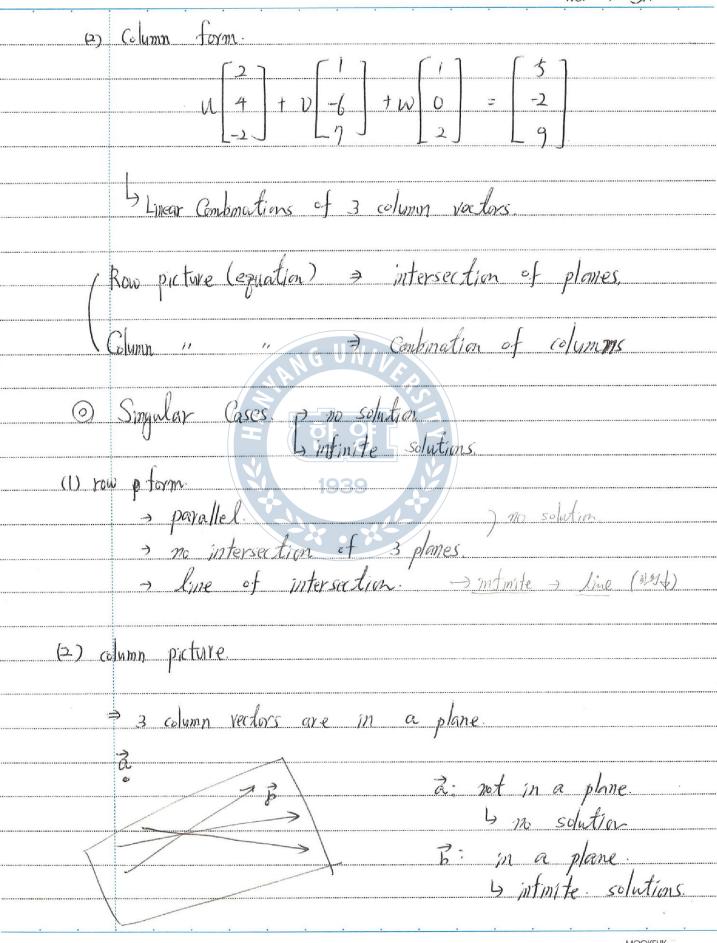
$$2u + v + w = 5$$

$$4u - 6v = -2 \Rightarrow 3 planes$$

$$-2u + 7v + 2w = 9$$

(1) row equations.

→ solution is the intersection of 3 planes. → a point,



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	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Ly triangular system.
	eakdown of Elimination
When and	a zero appears in a pivot position, elimination has to stop, change the order of equations has to be changed.
Ex 1.	$u+v+w=x \qquad u+v+w=x \qquad u+v+w=x$
	$2ut2vt5w = X \Rightarrow 3w = X \Rightarrow 2vt4w = X$
	4ut 6v + 8w = X = 2v + 4w = X $3w = X$
	7 non-singwar 1939
Ix2.	u + v + w = a $y + v + w = a$
	2u + 2v + 5w = b $+u + 4v + 5w = C$ $+w = C + 4a$ $+w = C + 4a$
	1) No exchange for non-zero
	$if \frac{5-2a}{3} = \frac{c-4a}{4} \rightarrow infinite.$
. (else — no solution.
	order of
=) by	exchanging the regulations for non-zero full pivots. e can find a solution by elimination.
WY	e can find a solution by elimination.

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