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	AI61003 Linear Algebra for AIRML
	Assignment of - Publim 04
	그는 이 그는 이번에 그녀는 그는 그는 얼룩에 되어 있는 그녀는 이 무슨 사람은 나는 이번에 모든 사람이었다.
	Considur Ax= 6 where A & Rmxn and 5 e 1Rm.
	<u> </u>
	Let A = [u, u2 u; un]
A. A.	we have take the best of the state of the st
	where i e Rm for i=1n.
	col(A) is the colours of A
The state of the s	col(A) is the columnspace of A defined as the span of all its
	column vectors.
	$col(A) = span(u, u_2, u_i,, u_n)$
4	At least one solution of Ax = 6 exists
	if and only if be col(A)
X	A unique solution of Az=b exists
(ii)	if and only if be col(A)
2	du, uz ui ung is a set of
	lissearly independent vectors i.e. matrix A is of full column hank (and equivalently A has a left
	mateux A is of full column mank
	in verse).
	These conditions can be equivalently
	written as following for a square matrix A & IRMXMJ. for a square
	A HARIANA A E IRMANO
	A unique soly of Ax= b exists if and only if A is inventible.
	The state of the s

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	This is because in a square matrix (ERMXM) if the column vectors are linearly independent then $col(A) = 1R^{M}$
	(ERMXM) if the column vectors are
	linearly independent then
	Col(A) = IRM
	and: be col(A). (condit 10/) And for a square matrix it is invertible iff it has full rank. (condit 2/)
	And for a square mateix it is
	invertible iff it has full rank.
	(conditte (2) V)
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