MATLAB: University of California, Davis

Computer LAB for Linear Algebra Dr. Daddel

MATH 22AL LAB # 6

21 How to Find independent Columns of Matrix *AB*

You may use this to find a basis for the row space:

type	`[R2, pivcol ] = rref(AB')`

This command will provide you rref(AB') and pivot columns of AB' which are row vectors of AB. The columns of AB that are independent and form a basis for the column space.

Then enter your basis vectors as:

type	`% ABU1 = your first row vector of basis of space of AB`
type	`% ABU2 = your second row vector of basis of space of AB`
type	`% ABU3 = your third row vector of basis of space of AB`

Note that these are Rows of AB that form a basis for row space of AB.

You Can use MATLAB to give you a matrix composed of the independent rows of AB

type	$C = AB'$
type	$UAB1 = C(:, pivcol)$