

Quiz 8

MA 262
Artur's Class

2014/10/23

Problem 1

Define 'linear independence.'

Problem 2

Define 'dimension' in terms of 'linear independence.'

Problem 3

Consider the following matrix.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 5 & 7 & 9 \end{pmatrix}.$$

- (a) Compute column space of \mathbf{A} .
- (b) Compute the kernel of \mathbf{A} .