MATLAB:

University of California, Davis

Computer LAB for Linear Algebra

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MATH 22AL

LAB # 6

13 Note:

Reading Materials

Definition The solution space of AX = 0 is called the null-space of A and denoted by null(A).

Definition Dimension of the null-space of A is called **nullity** of A and denoted by nullity(A).

NOTE: in the above example rank(A) = 3 and nullity(A) = 4. Recall the **dimension theorem:** Is A is an $m \times n$ matrix then rank(A) + nullity(A) = n.

Locate examples in your text book that show how to solve AX=0 and how to find a basis for the null-space of given matrix.

End of reading Materials