Subspaces, Null Spaces and Column Spaces

MATH 204: Linear Algebra

Prepare for class October 31, 2018   Name (Print): _____

After reading Sections 4.1 and 4.2, work through the following ideas.

1. Outline the steps for proving Theorem 4.1: Spans are Subspaces on page 196.

2. Using Example 11 on pages 196-197 as a guide, try exercise 17 on page 198.

3. What is the definition of a null space?

4. State Theorem 4.2: Nul A is a Subspace.

5. Give an outline for how we find an explicit description of the null space of A.

6. What is the definition of a column space?