

Section 1.1: Systems of Linear Equations

MATH 204: Linear Algebra
Prepare for class August 29, 2018

Name (Print): _____

After reading Section 1.1, answer the following questions.

1. Write down the definitions of the following:

(a) solution of a linear system

(b) equivalent systems

(c) consistent system

(d) inconsistent system

2. Copy the matrix from Exercise 6 on page 10. What is the size of this matrix? What does that mean?

3. Carefully read through Example 1 on pages 5 and 6. What are the three Elementary Row Operations?

4. Fill in the blank: If the augmented matrices of two linear systems are _____,

then the two systems _____.

5. Give an example of an augmented matrix of a linear system of three equations in three variables that you can immediately tell is inconsistent. Briefly explain why you can tell it is inconsistent.