

Applied Mathematics I

Worksheet #5

September 14, 1998- Professor Broughton

Name: _____

Box #: _____

1. Solving Systems

1. Write out and solve the system of equations coming from Exercise 19 using Maple.

2. Write the system in matrix form and then solve using Gaussian elimination and back substitution. Check your result using Maple.

$$\begin{aligned}x + 2y + z + w &= 1 \\2x + 4y + z + w &= 2 \\3x + 2y + 4z + 5w &= 3\end{aligned}$$

3. Solve the system of equations coming from Exercise 23.

1. Exercise 29. Is there a solution?