

MATH 401, HW 1, FALL 2015

1. Textbook, Section 1.2 problem 12 (5 pts)
2. Textbook, Section 1.2 problem 18 (5 pts)
3. For each system of equations from Section 1.3, problem 5, parts a), b), and c), please do the following: Find all the elementary row operations involved in Gauss-Jordan elimination for that system of equations. Please use the notation introduced in class. Next, find the matrices of all these operations and apply them appropriately to the augmented system matrix. Multiply out all the involved matrices to show that indeed this provides a solution of the system of equations. (each part (a), (b), (c) 5pts)