

HW #6, due Fri 4 Feb (turn in Mon 7 Feb)

Read p. 66, 69-70.5 Do P. 72: 1b,6,7,10,14,18,28bcd; [26]; E.C.:8,11,28a.

1. Directly means using Gauss-Jordan elimination on the augmented matrix.

Formula refers to Note 4, bottom of page 66.

6. (a) Quickly means it's easy.

(b) Just be creative; experiment, guess, and check.

7. (a) Show there is no solution.

(b) Give some sort of condition or description of every \mathbf{b} (in terms of \mathbf{b} 's components, $b_1; b_2; b_3$) for which the given equation has a solution.

(c) First write A using symbols a_{ij} . Then rewrite row3 as a sum of the first two rows. Now do elimination, and see what happens to row3.

28. (b) They mean every square matrix such that $a_{ii} = 1$ for every i .