

620-161 WEEKLY HOMEWORK SHEETS for 2007

HOMEWORK Sheet 1: (due in the second tutorial)

Linear equations. Find all solutions of the systems given below, using Gauss-Jordan elimination. At each step, indicate clearly the row operations that you perform.

$$\begin{array}{lll} (a) & x + y + 2z = 3 & (b) \quad x + y + 2z = 3 \\ & 2x - y = 3 & (c) \quad x + y + 2z = 3 \\ & x - 3y + z = 12 & \quad 2x - y = 3 \\ & & \quad x - 2y - 2z = 12 \\ & & \quad 2x + 2y + 4z = 6 \end{array}$$