

Math 250, Two additional problems for Homework 1, Due  
1/28/05

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**Problem 1** Solve the following system of linear equations:

$$2x_1 + 2x_2 - x_3 + x_4 = 4$$

$$4x_1 + 3x_2 - x_3 + 2x_4 = 6$$

$$8x_1 + 5x_2 - 3x_3 + 4x_4 = 12$$

$$3x_1 + 3x_2 - 2x_3 + 2x_4 = 6$$

**Problem 2** Solve the following system of linear equations:

$$-x + y + z + t = a$$

$$x - y + z + t = b$$

$$x + y - z + t = c$$

$$x + y + z - t = d$$