Old material: Generally there would be a more difficult question that is suspiciously similar to the homework.

1.1 (New material): Generally here I ask some lighter questions that you should have picked up from class. If you did not understand this part, you should put a question mark.

1.1.1 Write the augmented matrix of this system of equations:

$$\left\{ \begin{array}{l} 3x_1 + 4x_2 + 5x_3 + 6x_4 = 7 \\ x_1 + x_2 = x_3 + x_4 \\ x_1 = 8 \end{array} \right\}$$

1.1.2 Which of these are "elementary row operations"?

(a) Replace one row by the sum of itself and a multiple of another row.

(b) Interchange two rows.

(c) Multiply all entries in a row by a nonzero constant.

(d) Multiply two rows together.

1.1.3 If we use elementary row operations, what happens to the solution set?

You should get this back on Jan 17. The following note is for you to read then:

Before next class (Wed Jan 22) (a) reread 1.2 and fix your notes, (b) read 1.3 and get your notes ready for next class, and (c) do HW1.2 #1, 3, 5, 7, 9, 13, 15, 21, 23, 25, 27.