MATH 260, CPA 3, Fall '14
Due: September 9, 2014
Honor Code: **Name:**
Section:

1) Use the linear system below to...

$$\begin{array}{rcrcrcl} x & - & y & - & 2z & = & 1 \\ 2x & + & 3y & + & z & = & 2 \\ 5x & + & 4y & + & 2z & = & 4 \end{array}$$

a) convert the system into the matrix-vector form, $\mathbf{A}\vec{x} = \vec{b}$.

b) write the augmented matrix $[\mathbf{A}|\vec{b}]$ for the system.

c) use elementary row operations to change the 2 in the 2,1 spot (the second row, first column entry) of the matrix $\mathbf{A}$ into a 0. Give the resulting matrix which row operation(s) you used to get it.