Your name:

C =

(first)

(last)

For each of the following problems, define an appropriate augmented matrix and reduce it by using rref(). Then complete the questions using the outcome of rref().

1. The system of linear equations is given below.



(a) Write the corresponding augmented matrix ${\tt C}$ in Matlab.



(c) Give a solution/general solution to the systems of linear equations if it exists.

2. Find a solution/general solution to the following systems of linear equations if it exists.

$$\begin{cases} x_1 + 2x_2 + x_3 + 3x_4 = 4\\ 3x_1 + 6x_2 + 5x_3 + 10x_4 = 0\\ 5x_1 + 10x_2 + 7x_3 + 17x_4 = 23 \end{cases}$$