## Matlab Group Assignment #1 (Part A)

Section #:	
Names:	UINs:

- 1. Write the system of equations below in matrix form, then solve using matrix division in Matlab:
  - $\begin{array}{l} x-y+3z-2w=10\\ -2x+4y-3z+w=5\\ 3x-y+10z-4w=29\\ 4x-3y+8z-2w=6 \end{array}$

2. Repeat for the following system of equations. In the space below, explain Matlab's warning and what is actually happening (if you are not sure, try using the **solve** command as well).

$$3x + 6y - 9z = 152x + 4y - 6z = 10-2x - 3y + 4z = -6$$

3. Repeat for the following system of equations. In the space below, explain Matlab's warning and what is actually happening.

$$2x - 4y + z = -4$$
  

$$4x - 8y + 7z = 2$$
  

$$-2x + 4y - 3z = 5$$