Matlab Group Assignment #1 (Part A)

Section #:		
Names:	UINs:	
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1. Write the system of equations below in matrix form, then solve using matrix division in Matlab:

$$\begin{aligned} x+y+z+w &= 10 \\ 3x-2y+z+4w &= 18 \\ 2x+3y-5z-w &= -11 \\ x+4y-2z+3w &= 15 \end{aligned}$$

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).

$$\begin{aligned} x+y+z&=1\\ x+z&=1\\ 2x+y+2z&=0 \end{aligned}$$

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

$$x + y + z = 3$$
$$2y + z = 4$$
$$x - y = -1$$