MATH 335 Quiz 1 Name
Student number

Show all work. 5 points each.
1. Write the augmented matrix that represents the system and write the general solution .

$$x_2 + 4x_3 = -5$$
$$x_1 + 3x_2 + 5x_3 = -2$$

2.a) (3pts) Write a vector equation that is equivalent to the system

$$x_2 + 5x_3 = 0$$
$$4x_1 + 6x_2 - x_3 = 0$$
$$-x_1 + 3x_2 - 8x_3 = 0$$

b) (2pts) True or False. The set of vectors $\begin{bmatrix}1\\0\\0\end{bmatrix}, \begin{bmatrix}0\\1\\0\end{bmatrix}, \begin{bmatrix}2\\3\\0\end{bmatrix}$ span $\mathbb{R}^3$