Home work 2

Submission (Monday 11 September)

Note: If the university is closed on 11 September then submit the home work on Wednesday 13 September

Q. 1 what conditions must b1, b2, b3 satisfy for the following system to be consistent

$$x_1 - 2x_2 + 5x_3 = b_1$$

$$4x_1 - 5x_2 + 8x_3 = b_2$$

$$-3x_1 + 3x_2 - 3x_3 = b_3$$

Q. 2 If possible find the inverse of the matrix with elementary row operations

$$A = \begin{bmatrix} 2 & 1 & 2 \\ 2 & 2 & -2 \\ 3 & 1 & 1 \end{bmatrix}$$

Good luck