Q.1 
$$A = \begin{bmatrix} 1 & 3 & 5 \\ -1 & 4 & 12 \\ 2 & 6 & -5 \end{bmatrix}$$
,  $B = \begin{bmatrix} 12 & 8 & 5 \\ -1 & 4 & 11 \\ 4 & 10 & -2 \end{bmatrix}$ ,

- a) Find A+B, A-B,  $A^*B$ ,  $A^TB$ ,  $A^{-1}$
- b) Find Eigen value of A and B matrices.

Q.2 
$$-x - 11y - 3z = -37$$
  
 $x + y = -1$   
 $2x + 5y + z = 10$ 

Solve for X, AX=B.