

1. Solve the following system of equations using Gaussian elimination method
  - i.  $2x + y + 3z = 1, 2x + 6y + 8z = 3, 6x + 8y + 18z = 5$
  - ii.  $3x - y + 2z = 1, 4x + y - z = 7, x + 2y - 3z = 5$
2. Using Gaussian elimination solve the equations  $2x + y + z = 3, 2x - y + z = 2$  and  $6x + 9y + 10z = 1$
3. Use Gaussian elimination to solve the system  $x + 3y = 4, 2x - y = 1, 3x + 2y = 5, 5x + 15y = 20$
4. Solve :  $x + y + z = 9, x - 2y + 3z = 8, 2x + y - z = 3$  by using Gauss elimination method