(1)[7 points] Solve the following system of equations using Gauss-Jordan elimination.

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

$$8x + y - z = 5$$

$$2x + y + 2z = 5$$

(2)[8 points] Solve the following system of equations using Gauss-Jordan elimination:

$$x + y + z = 1$$

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

$$4x + 5y + 6z = 7$$