Solving 3 Unknown Linear System Equations

Solving the following 3 unknown linear system equations using different method:

1) By algebraic method, 2) By determinant method, (3) By Gauss-Jordan Elimination method,
4) By back substitution method

**Question 1**

\[2r - 3s - 2t = -11 \quad \text{(1)}\]

\[3r + 3s - t = -3 \quad \text{(2)}\]

\[2r - s + 2t = 3 \quad \text{(3)}\]

**Question 2**

\[x + 2y + 3z = 0 \quad \text{(1)}\]

\[4x + 5y + 6z = 1 \quad \text{(2)}\]

\[7x + 8y + 8z = -1 \quad \text{(3)}\]