Exercise 1. Solve the following system of equations:

$$\begin{cases} 2x+5y-2z-3t=0 \\ x+2y-3z+t=1 \\ x+4y-5z+2t=3 \end{cases}$$

Exercise 2. Solve the following system of equations:

$$\begin{cases} -2x+y+6z=3 \\ x+4y+3z=-2 \\ -x+2y+5z=4 \end{cases}$$

Exercise 3. Solve the following system using the matrix elimination method:

$$\begin{cases} -x+3y-6z=3 \\ x-y+2z=-1 \\ 2x+y+z=3 \end{cases}.$$

Exercise 4. Find the relationship between the value of parameter p and the number of solutions of the system using Kronecker-Capelli theorem: $\begin{cases} -px+5y+3z=3 \\ 2x-4y-z=p \\ x+3py+pz=p \end{cases}.$