## General Solution Example 2

Example 7: Find the general solution of the linear system in parametric form. Check your answer!

$$\begin{cases} x_{1} + 2x_{2} + x_{3} + x_{4} = 1 \\ 2x_{1} + 3x_{2} + x_{3} + 2x_{4} = 1 \end{cases}$$

$$\begin{bmatrix} 1 & 2 & 1 & 1 \\ 1 & 2 & 1 & 1 \end{bmatrix} R_{2} = R_{2} - 2R \begin{bmatrix} 1 & 2 & 1 & 1 & 1 \\ 0 & -1 & -1 & 0 & -1 \end{bmatrix} R_{2} = R_{2} - R_{2} \\ R_{1} = R_{2} = R_{2} \\ R_{2} = R_{2} \\ R_{1} = R_{2} = R_{2} \\ R_{1} = R_{2} = R_{2} \\ R_{2} = R_{2} \\ R_{1} = R_{2} = R_{2} \\ R_{1} = R_{2} = R_{2} \\ R_{2} = R_{2} \\ R_{1} = R_{2} = R_{2} \\ R_{2} = R_{2} \\ R_{1} = R_{2} = R_{2} \\ R_{2} = R_{2} \\ R_{1} = R_{2} = R_{2} \\ R_{2} = R_{2} \\ R_{1} = R_{2} = R_{2} \\ R_{2} = R_{2} \\ R_{1} = R_{2} = R_{2} \\ R_{2} = R_{2} \\ R_{1} = R_{2} = R_{2} \\ R_{2} = R_{2} \\ R_{2} = R_{2} \\ R_{1} = R_{2} \\ R_{2} = R_{2} \\ R_{2} = R_{2} \\ R_{3} = R_{3} \\ R_{4} = R_{2} \\ R_{4} = R_{2} \\ R_{4} = R_{2} \\ R_{4} = R_{4} \\ R$$