$$\begin{aligned} -2x_1 - 3x_2 - 9x_3 + 2x_4 \qquad - 16x_6 &= 0 \\ -x_1 + 2x_2 + 6x_3 - 2x_4 + x_5 + 15x_6 &= 6 \\ -x_1 - 3x_2 - 9x_3 - 3x_4 + x_5 - \quad x_6 &= 21 \\ 2x_1 \qquad\qquad - \quad x_4 \qquad\qquad\quad &= 1 \end{aligned}$$

RREF and system corresponding to RREF:

$$\begin{bmatrix} 1 & 0 & 0 & 0 & 0 & -2 & -2 \\ 0 & 1 & 3 & 0 & 0 & 4 & -2 \\ 0 & 0 & 0 & 1 & 0 & -4 & -5 \\ 0 & 0 & 0 & 0 & 1 & -3 & -2 \end{bmatrix} \Longrightarrow \begin{aligned} x_1 \qquad\qquad\quad - 2x_6 &= -2 \\ x_2 + 3x_3 \qquad - 4x_6 &= -2 \\ x_4 \quad - 4x_6 &= -5 \\ x_5 - 3x_6 &= -2 \end{aligned}$$

Parameter definitions for free variables and solution of the system in parametric form:

$$\begin{aligned} x_3 &= \lambda_1 \\ x_6 &= \lambda_2 \end{aligned} \Longrightarrow \begin{aligned} x_1 &= -2 \qquad + 2\lambda_2 \\ x_2 &= -2 - 3\lambda_1 + 4\lambda_2 \\ x_3 &= \qquad \lambda_1 \\ x_4 &= -5 \qquad + 4\lambda_2 \\ x_5 &= -2 \qquad + 3\lambda_2 \\ x_6 &= \qquad\quad \lambda_2 \end{aligned}$$

Solution set for system:

$$\left\{ \begin{bmatrix} -2 \\ -2 \\ 0 \\ -5 \\ -2 \\ 0 \end{bmatrix} + \lambda_1 \begin{bmatrix} 0 \\ -3 \\ 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} + \lambda_2 \begin{bmatrix} 2 \\ 4 \\ 0 \\ 4 \\ 3 \\ 1 \end{bmatrix} : \lambda_1, \lambda_2 \in \mathbb{R} \right\}$$

This set is a plane in $\mathbb{R}^6$.