Resolution of the system of linear equations AX = b with SCILAB

 With the function rref applied to the augmented matrix of the system:

- With the command \ and the function kernel:
 - $X = A \setminus b$ (Particular solution)
 - kernel(A)
 - If C₁, C₂,..., C_p are the columns of kernel(A), then the set of solutions is

$$X + \lambda_1 C_1 + \lambda_2 C_2 + \cdots + \lambda_p C_p$$

Being $\lambda_1, \lambda_2, \dots, \lambda_p \in \mathbb{R}$ (parameters)

